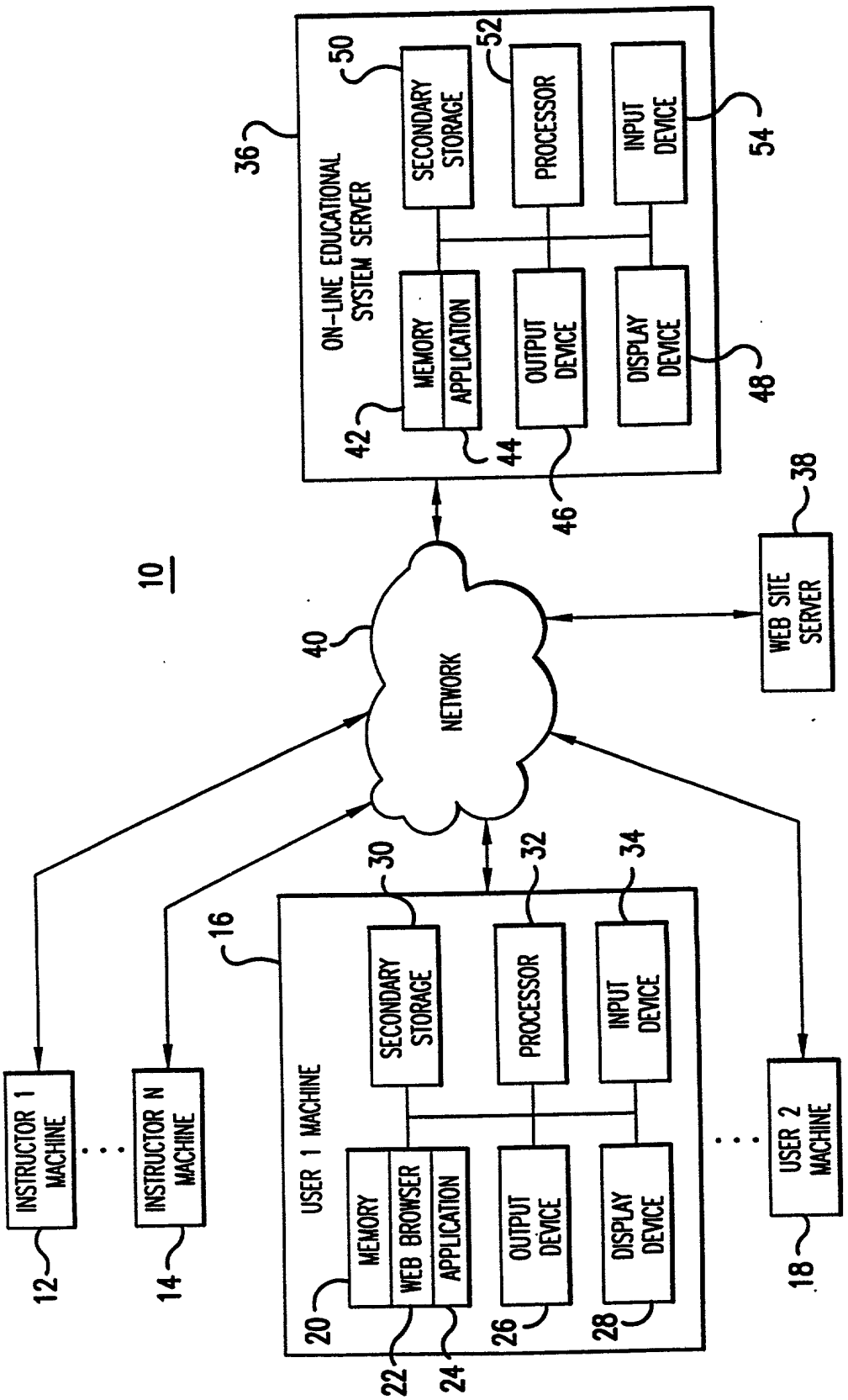

10
36
ON-LINE EDUCATIONAL SYSTEM SERVER
50
SECONDARY STORAGE
52
PROCESSOR
INPUT DEVICE
54
MEMORY APPLICATION
42
44
OUTPUT DEVICE
46
DISPLAY DEVICE
48
38
WEB SITE SERVER
40
NETWORK
30
32
34
16
USER 1 MACHINE
SECONDARY STORAGE
PROCESSOR
INPUT DEVICE
MEMORY WEB BROWSER APPLICATION
20
22
24
OUTPUT DEVICE
26
DISPLAY DEVICE
28
INSTRUCTOR 1 MACHINE
12
INSTRUCTOR N MACHINE
14
USER 2 MACHINE
18

FIG. 1

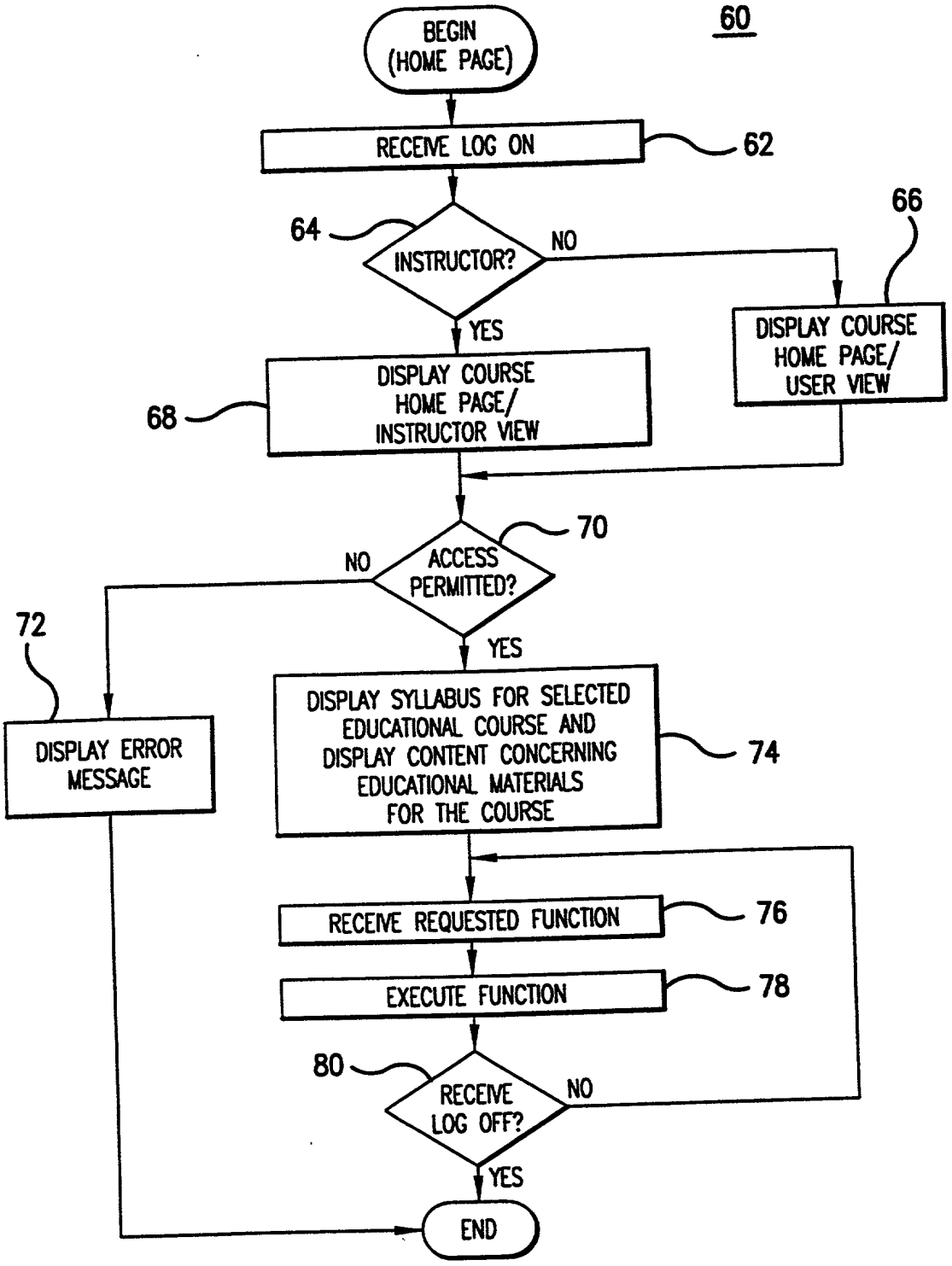

60
BEGIN (HOME PAGE)
RECEIVE LOG ON
62
64
INSTRUCTOR?
NO
66
YES
DISPLAY COURSE HOME PAGE/ USER VIEW
DISPLAY COURSE HOME PAGE/ INSTRUCTOR VIEW
68
70
ACCESS PERMITTED?
NO
72
YES
DISPLAY ERROR MESSAGE
DISPLAY SYLLABUS FOR SELECTED EDUCATIONAL COURSE AND DISPLAY CONTENT CONCERNING EDUCATIONAL MATERIALS FOR THE COURSE
74
RECEIVE REQUESTED FUNCTION
76
EXECUTE FUNCTION
78
80
RECEIVE LOG OFF?
NO
YES
END

FIG. 1A

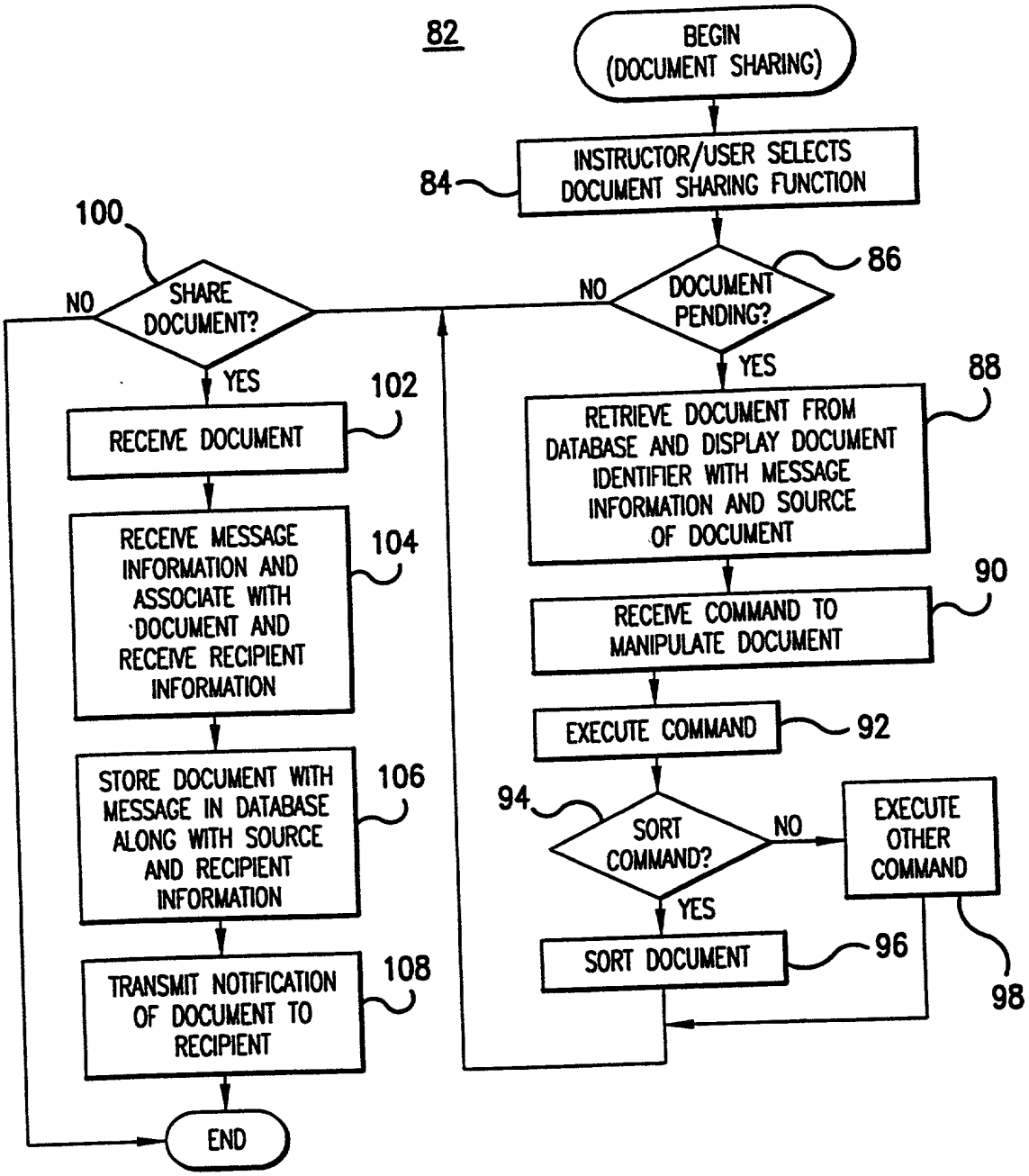

82
BEGIN (DOCUMENT SHARING)
INSTRUCTOR/USER SELECTS DOCUMENT SHARING FUNCTION
84
DOCUMENT PENDING?
86
NO
YES
RETRIEVE DOCUMENT FROM DATABASE AND DISPLAY DOCUMENT IDENTIFIER WITH MESSAGE INFORMATION AND SOURCE OF DOCUMENT
88
RECEIVE COMMAND TO MANIPULATE DOCUMENT
90
EXECUTE COMMAND
92
SORT COMMAND?
94
NO
YES
EXECUTE OTHER COMMAND
98
SORT DOCUMENT
96
SHARE DOCUMENT?
100
NO
YES
RECEIVE DOCUMENT
102
RECEIVE MESSAGE INFORMATION AND ASSOCIATE WITH DOCUMENT AND RECEIVE RECIPIENT INFORMATION
104
STORE DOCUMENT WITH MESSAGE IN DATABASE ALONG WITH SOURCE AND RECIPIENT INFORMATION
106
TRANSMIT NOTIFICATION OF DOCUMENT TO RECIPIENT
108
END

FIG. 1B

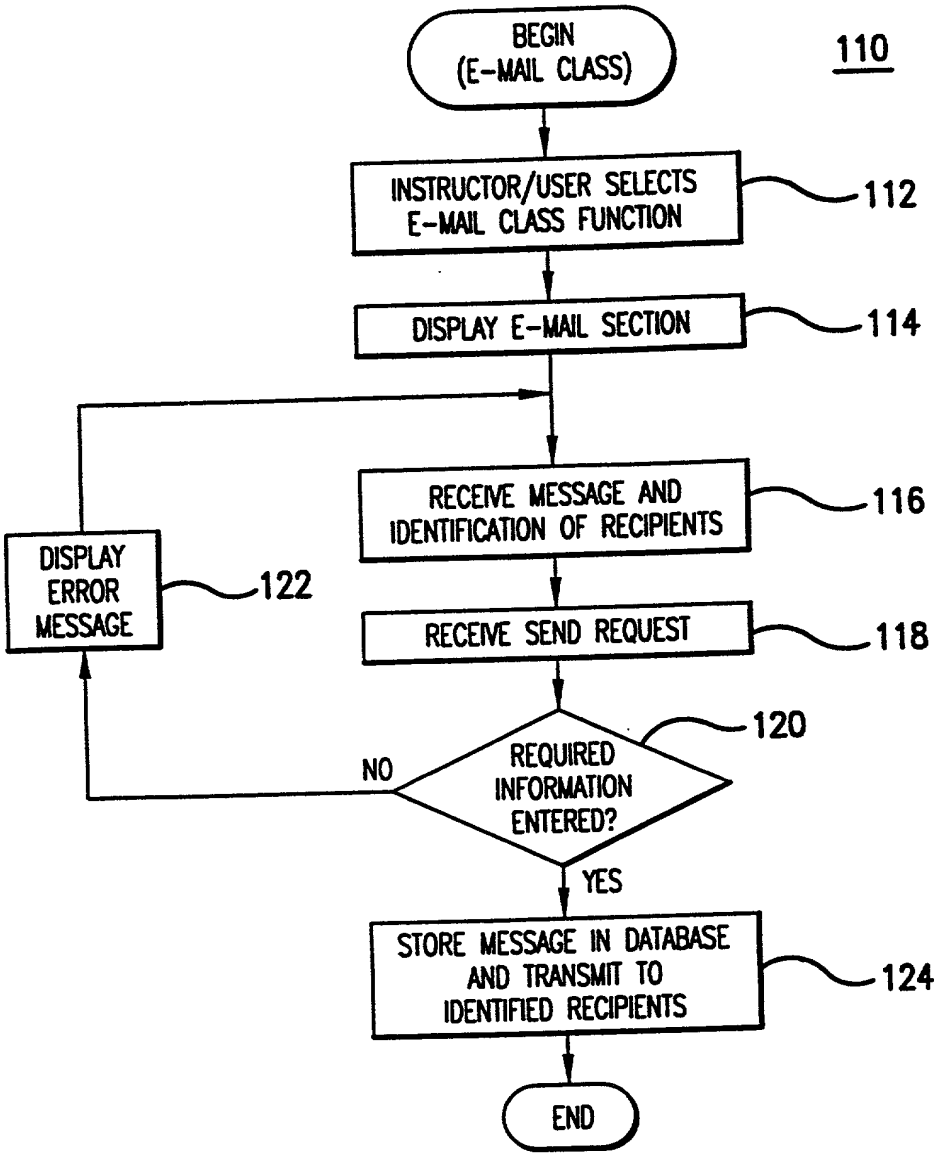

BEGIN
(E-MAIL CLASS)
110
INSTRUCTOR/USER SELECTS
E-MAIL CLASS FUNCTION
112
DISPLAY E-MAIL SECTION
114
RECEIVE MESSAGE AND
IDENTIFICATION OF RECIPIENTS
116
DISPLAY
ERROR
MESSAGE
122
RECEIVE SEND REQUEST
118
120
REQUIRED
INFORMATION
ENTERED?
NO
YES
STORE MESSAGE IN DATABASE
AND TRANSMIT TO
IDENTIFIED RECIPIENTS
124
END

FIG. 1C

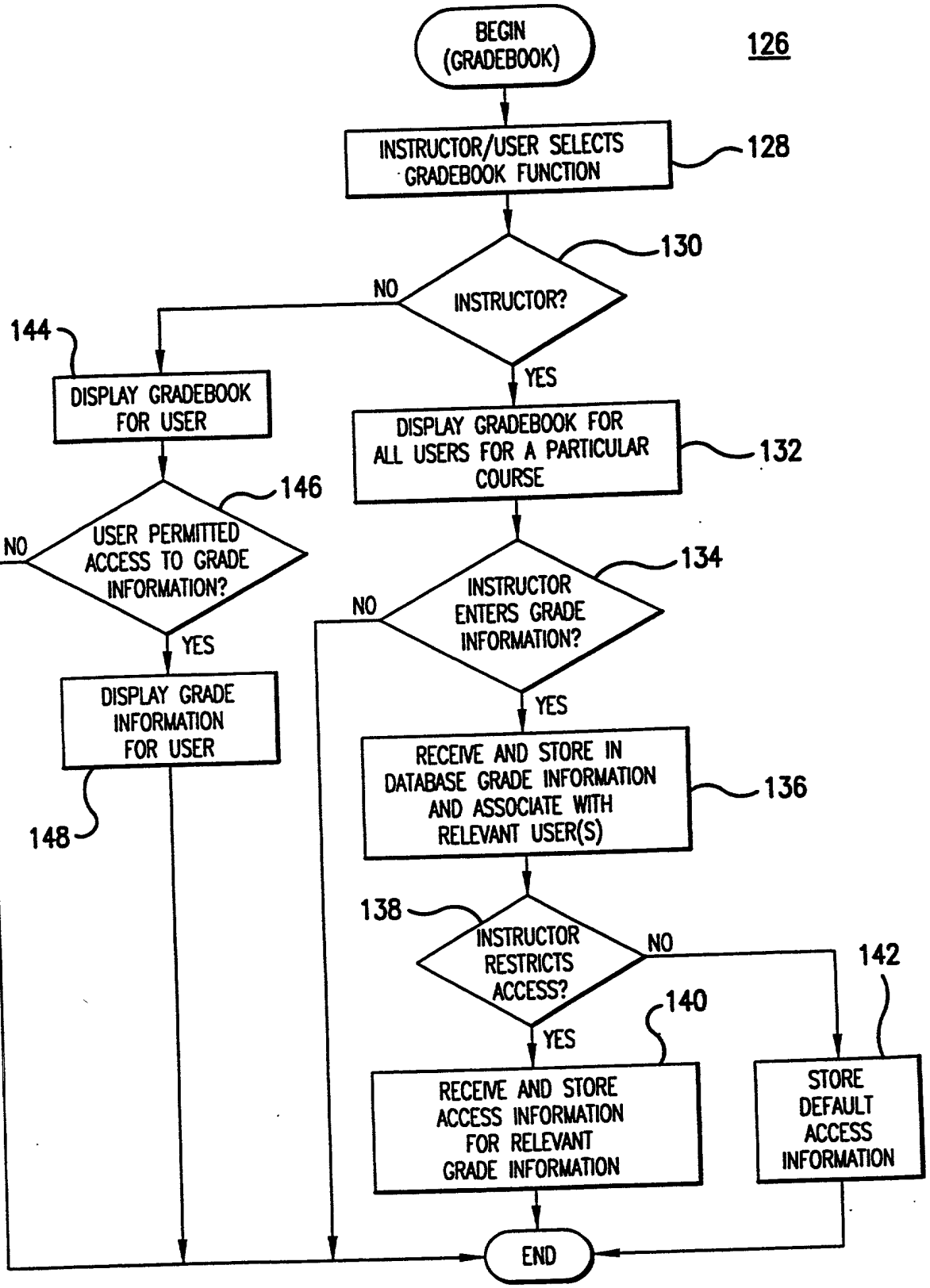


FIG. 1D

10067564 - 042502

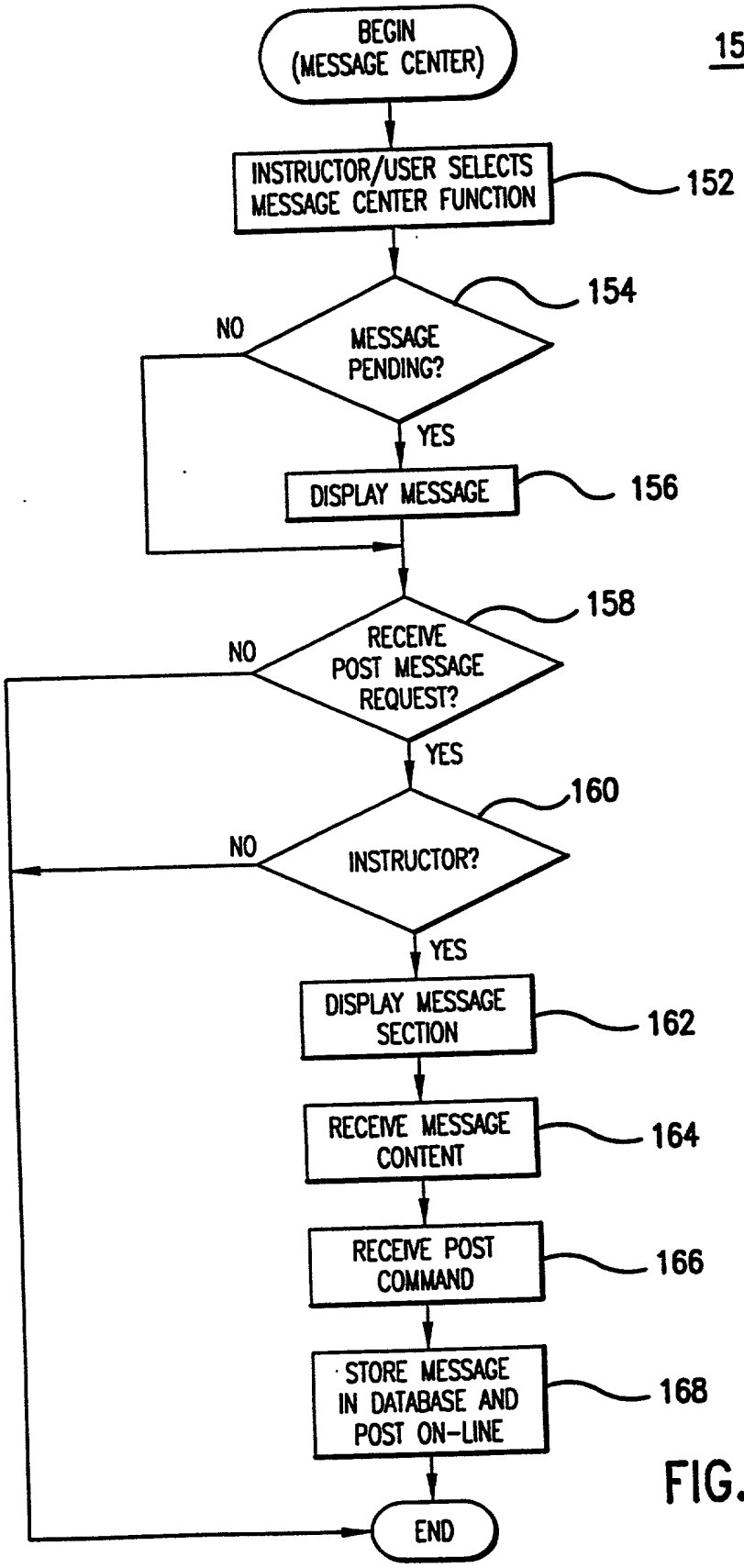


FIG. 1E

10054750 "04502

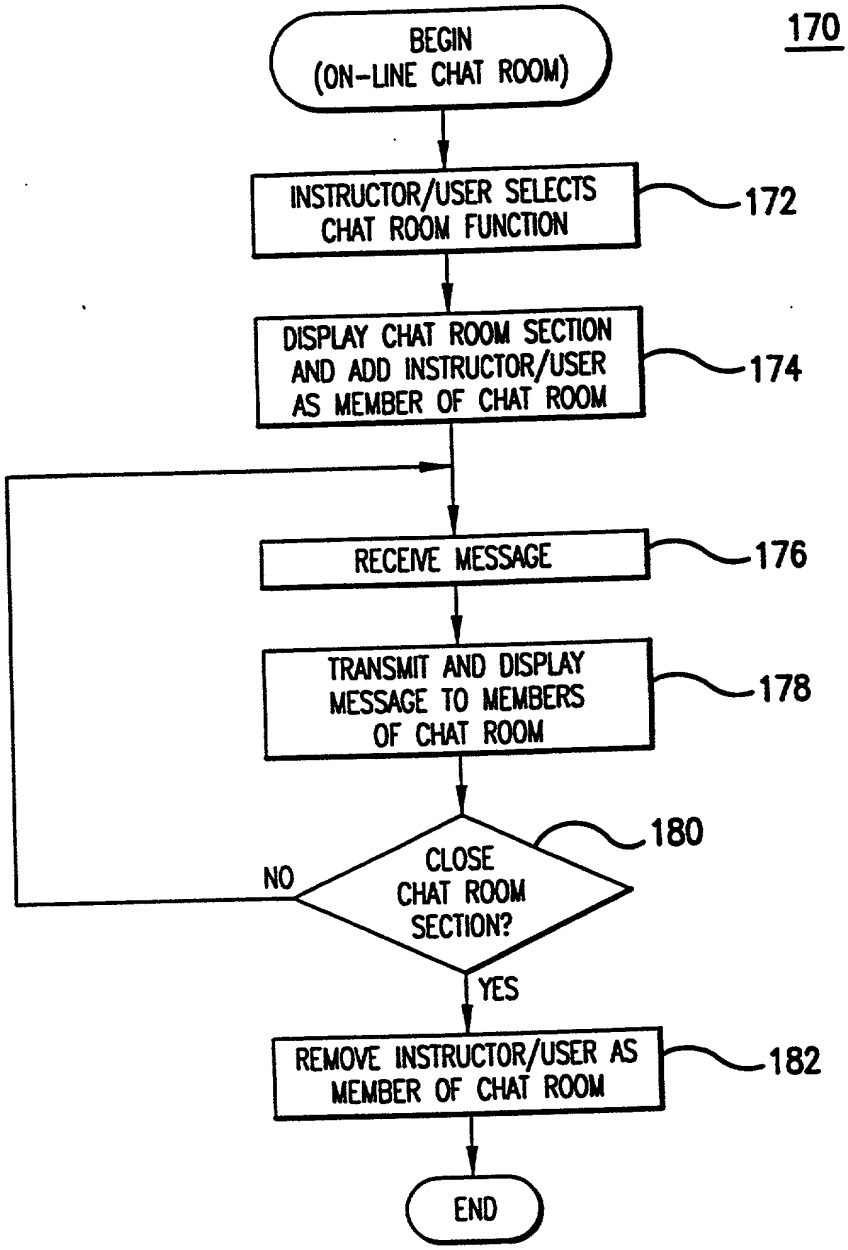

170
BEGIN
(ON-LINE CHAT ROOM)
INSTRUCTOR/USER SELECTS
CHAT ROOM FUNCTION
172
DISPLAY CHAT ROOM SECTION
AND ADD INSTRUCTOR/USER
AS MEMBER OF CHAT ROOM
174
RECEIVE MESSAGE
176
TRANSMIT AND DISPLAY
MESSAGE TO MEMBERS
OF CHAT ROOM
178
180
CLOSE
CHAT ROOM
SECTION?
NO
YES
REMOVE INSTRUCTOR/USER AS
MEMBER OF CHAT ROOM
182
END

FIG. 1F

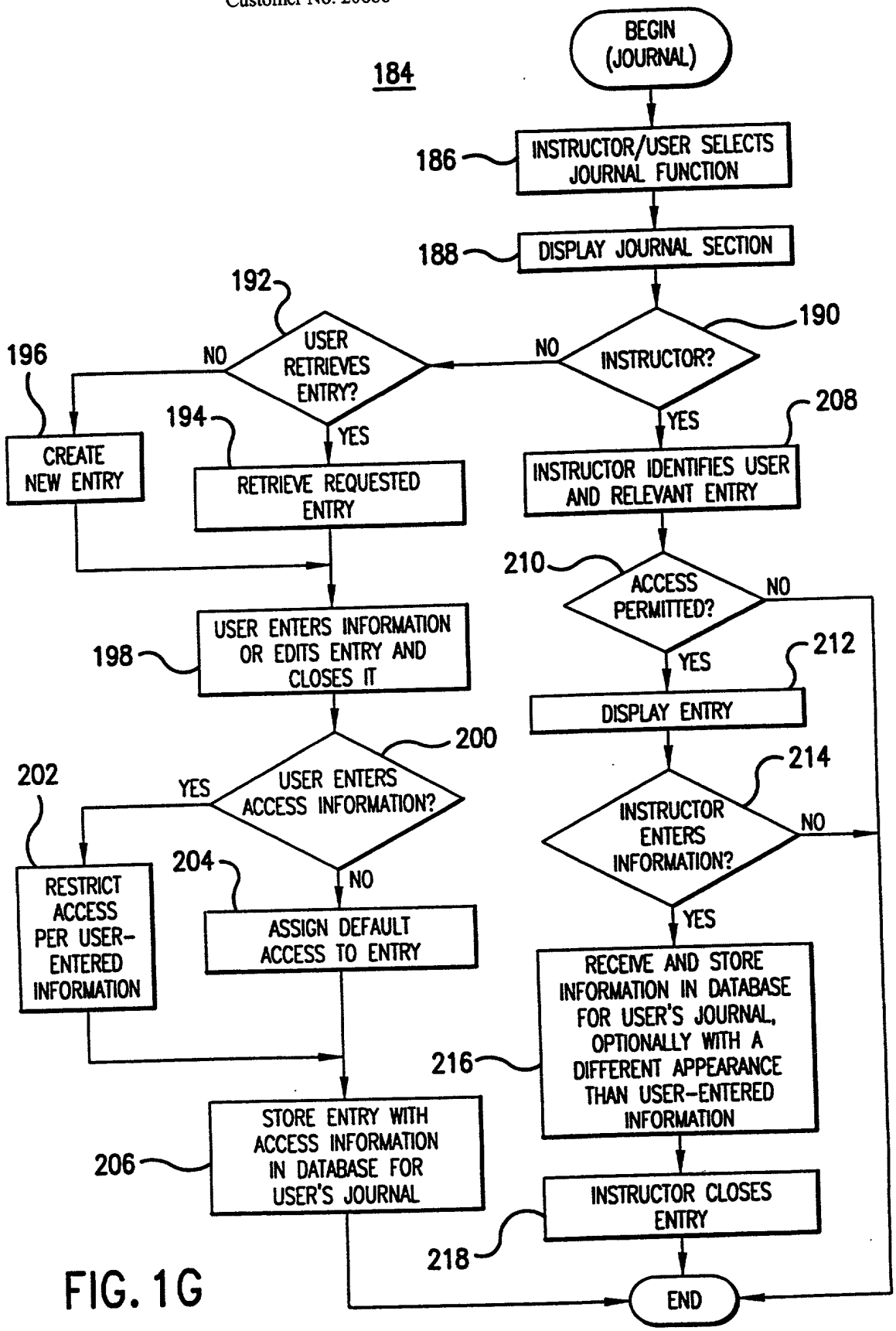

184
BEGIN (JOURNAL)
186
INSTRUCTOR/USER SELECTS JOURNAL FUNCTION
188
DISPLAY JOURNAL SECTION
190
INSTRUCTOR?
NO
YES
192
USER RETRIEVES ENTRY?
NO
YES
194
RETRIEVE REQUESTED ENTRY
196
CREATE NEW ENTRY
198
USER ENTERS INFORMATION OR EDITS ENTRY AND CLOSES IT
200
USER ENTERS ACCESS INFORMATION?
YES
NO
202
RESTRICT ACCESS PER USER-ENTERED INFORMATION
204
ASSIGN DEFAULT ACCESS TO ENTRY
206
STORE ENTRY WITH ACCESS INFORMATION IN DATABASE FOR USER'S JOURNAL
208
INSTRUCTOR IDENTIFIES USER AND RELEVANT ENTRY
210
ACCESS PERMITTED?
NO
YES
212
DISPLAY ENTRY
214
INSTRUCTOR ENTERS INFORMATION?
NO
YES
216
RECEIVE AND STORE INFORMATION IN DATABASE FOR USER'S JOURNAL, OPTIONALLY WITH A DIFFERENT APPEARANCE THAN USER-ENTERED INFORMATION
218
INSTRUCTOR CLOSES ENTRY
END

FIG. 1G

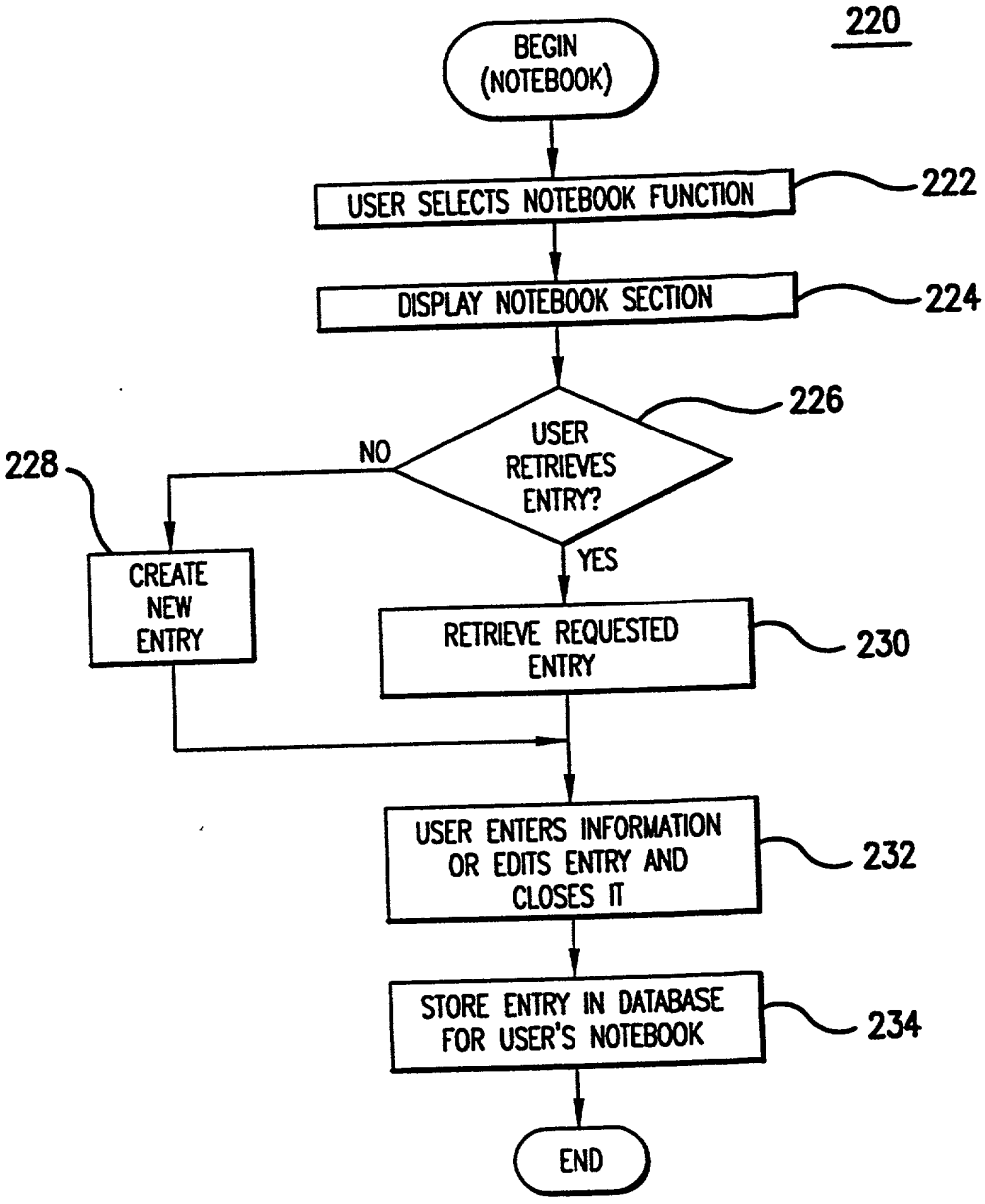

220
BEGIN (NOTEBOOK)
USER SELECTS NOTEBOOK FUNCTION
222
DISPLAY NOTEBOOK SECTION
224
USER RETRIEVES ENTRY?
226
NO
228
YES
CREATE NEW ENTRY
RETRIEVE REQUESTED ENTRY
230
USER ENTERS INFORMATION OR EDITS ENTRY AND CLOSES IT
232
STORE ENTRY IN DATABASE FOR USER'S NOTEBOOK
234
END

FIG. 1H

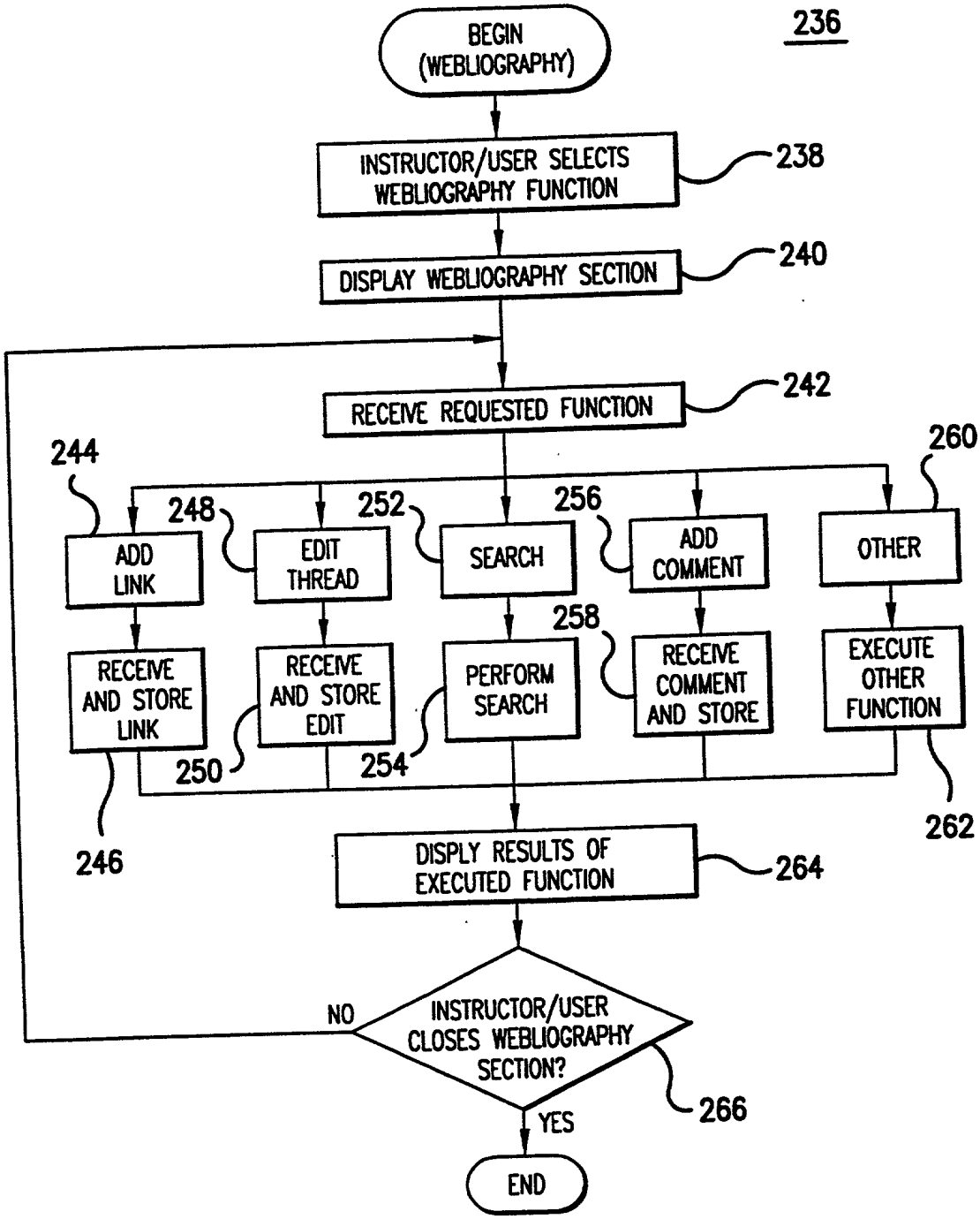

236
BEGIN (WEBLIOGRAPHY)
INSTRUCTOR/USER SELECTS WEBLIOGRAPHY FUNCTION
238
DISPLAY WEBLIOGRAPHY SECTION
240
RECEIVE REQUESTED FUNCTION
242
244
248
252
256
260
ADD LINK
EDIT THREAD
SEARCH
ADD COMMENT
OTHER
RECEIVE AND STORE LINK
RECEIVE AND STORE EDIT
PERFORM SEARCH
258
RECEIVE COMMENT AND STORE
EXECUTE OTHER FUNCTION
250
254
246
262
DISPLY RESULTS OF EXECUTED FUNCTION
264
NO
INSTRUCTOR/USER CLOSES WEBLIOGRAPHY SECTION?
266
YES
END

FIG. 11

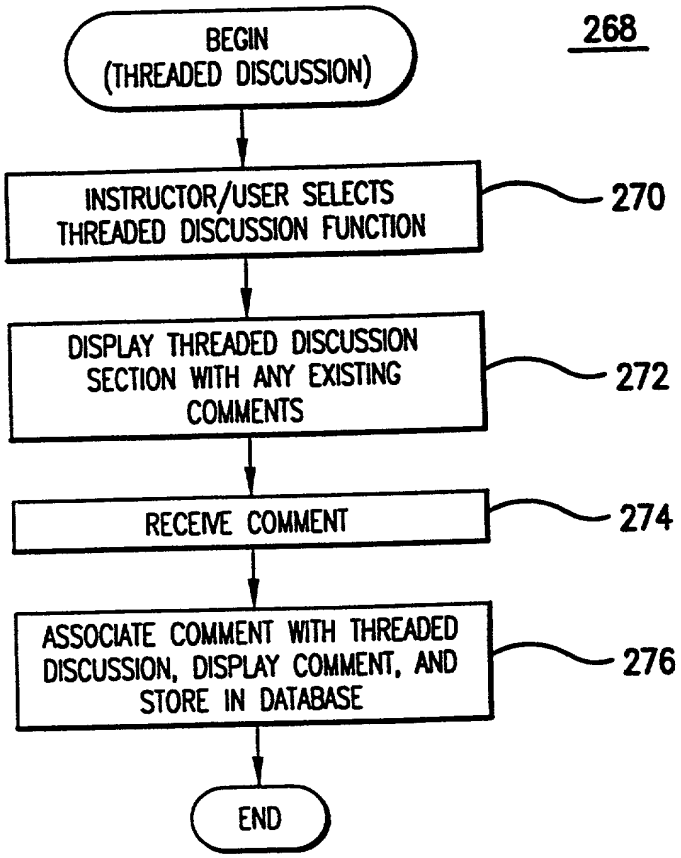

268
BEGIN
(THREADED DISCUSSION)
INSTRUCTOR/USER SELECTS
THREADED DISCUSSION FUNCTION
270
DISPLAY THREADED DISCUSSION
SECTION WITH ANY EXISTING
COMMENTS
272
RECEIVE COMMENT
274
ASSOCIATE COMMENT WITH THREADED
DISCUSSION, DISPLAY COMMENT, AND
STORE IN DATABASE
276
END

FIG. 1J

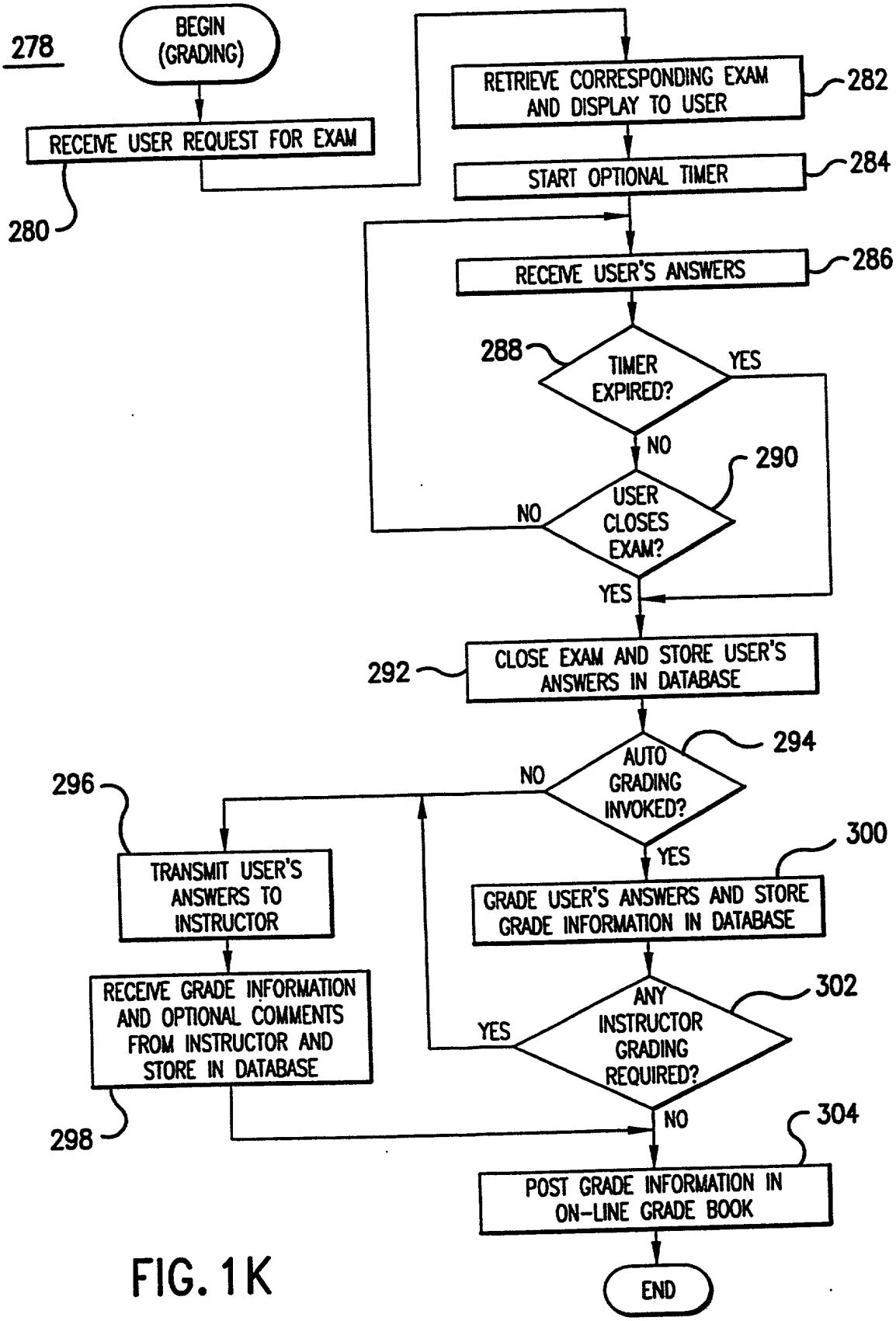

278
BEGIN (GRADING)
RECEIVE USER REQUEST FOR EXAM
280
RETRIEVE CORRESPONDING EXAM AND DISPLAY TO USER
282
START OPTIONAL TIMER
284
RECEIVE USER'S ANSWERS
286
288
TIMER EXPIRED?
YES
NO
290
USER CLOSES EXAM?
NO
YES
CLOSE EXAM AND STORE USER'S ANSWERS IN DATABASE
292
294
AUTO GRADING INVOKED?
NO
296
TRANSMIT USER'S ANSWERS TO INSTRUCTOR
RECEIVE GRADE INFORMATION AND OPTIONAL COMMENTS FROM INSTRUCTOR AND STORE IN DATABASE
298
YES
300
GRADE USER'S ANSWERS AND STORE GRADE INFORMATION IN DATABASE
302
ANY INSTRUCTOR GRADING REQUIRED?
YES
NO
304
POST GRADE INFORMATION IN ON-LINE GRADE BOOK
END

FIG. 1K

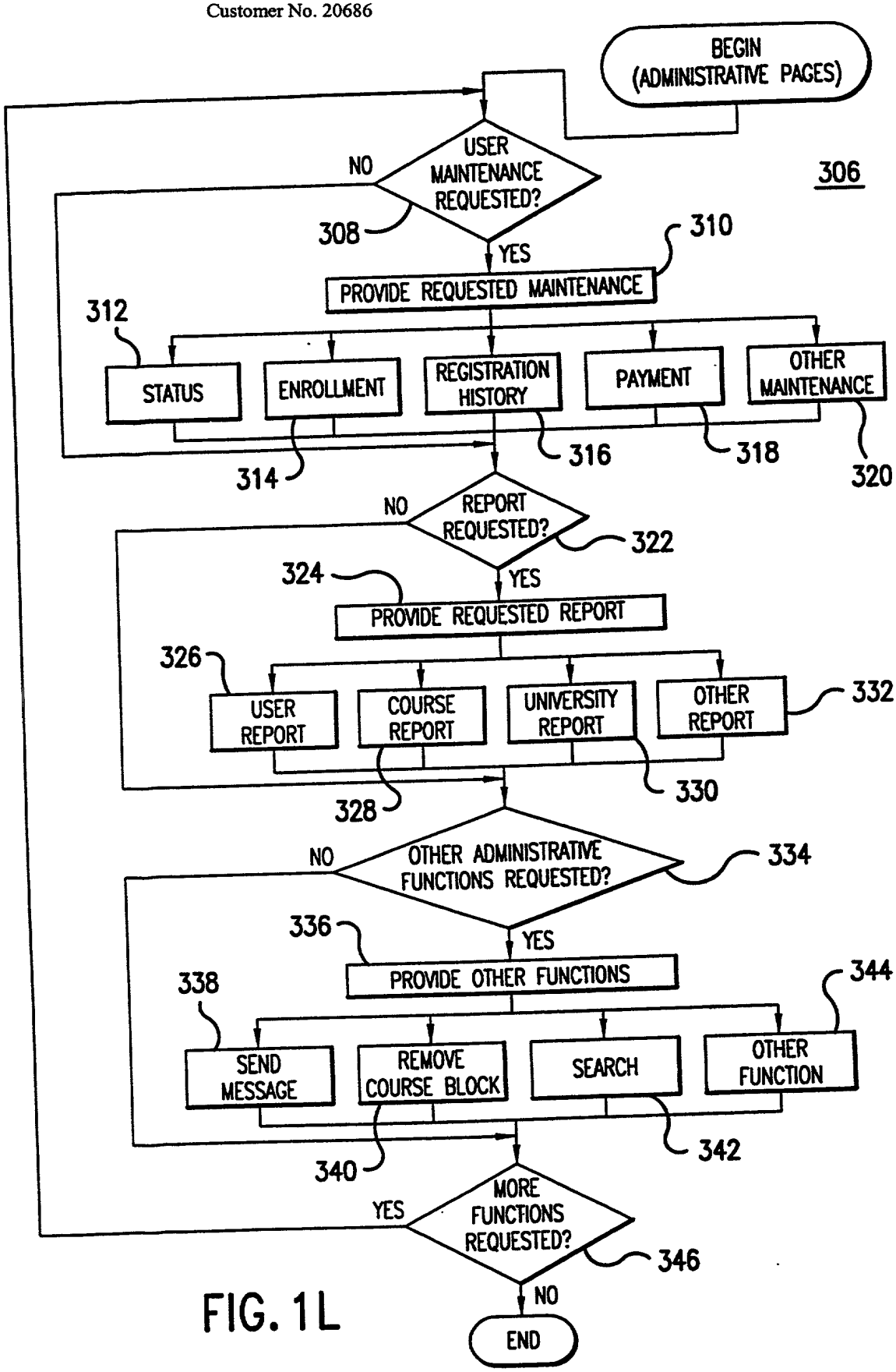


FIG. 1L

10067504 - 042502

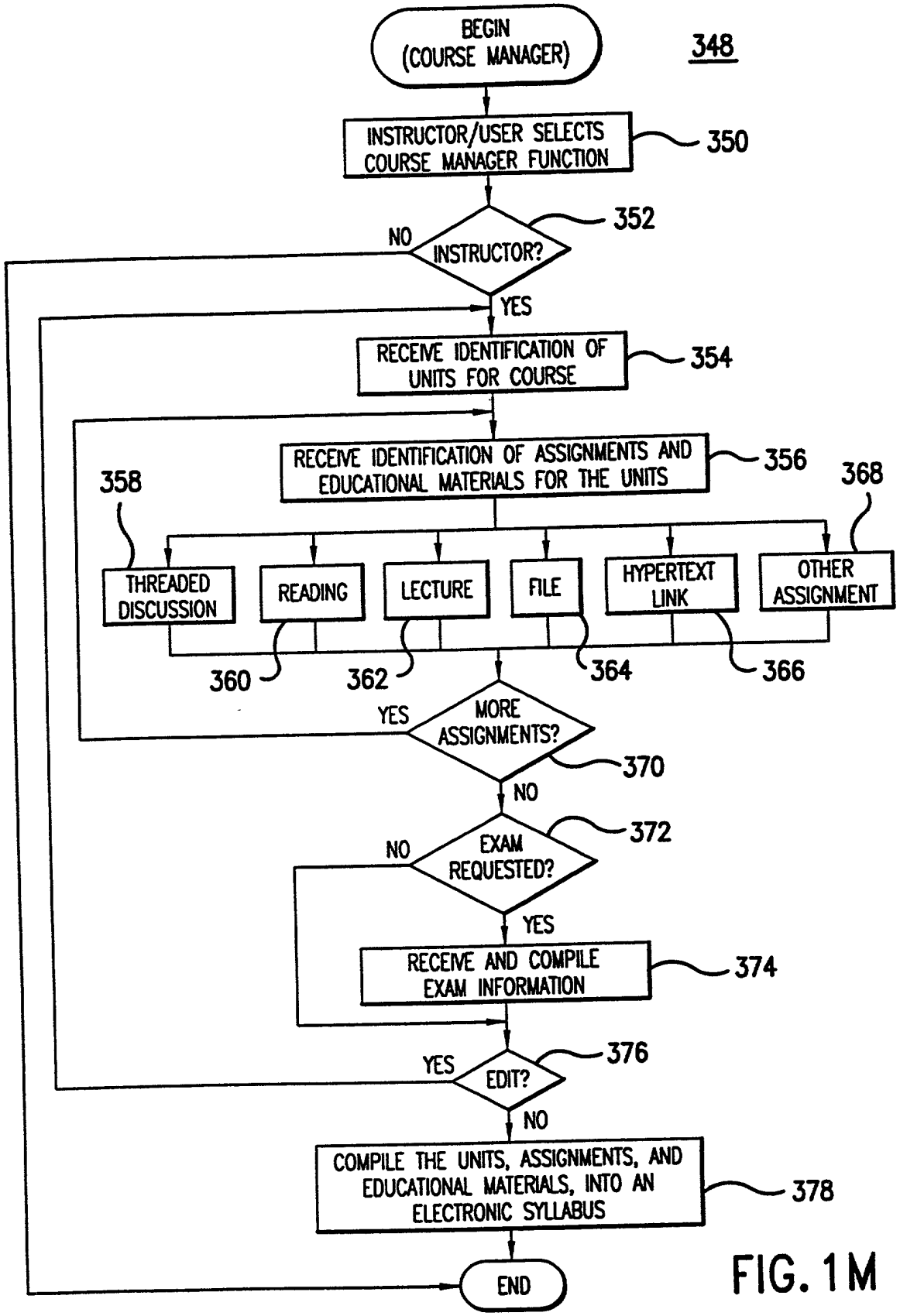

BEGIN (COURSE MANAGER)
348
INSTRUCTOR/USER SELECTS COURSE MANAGER FUNCTION
350
INSTRUCTOR?
352
NO
YES
RECEIVE IDENTIFICATION OF UNITS FOR COURSE
354
RECEIVE IDENTIFICATION OF ASSIGNMENTS AND EDUCATIONAL MATERIALS FOR THE UNITS
356
358
368
THREADED DISCUSSION
READING
LECTURE
FILE
HYPERTEXT LINK
OTHER ASSIGNMENT
360
362
364
366
MORE ASSIGNMENTS?
370
YES
NO
EXAM REQUESTED?
372
NO
YES
RECEIVE AND COMPILE EXAM INFORMATION
374
EDIT?
376
YES
NO
COMPILE THE UNITS, ASSIGNMENTS, AND EDUCATIONAL MATERIALS, INTO AN ELECTRONIC SYLLABUS
378
END

FIG. 1M

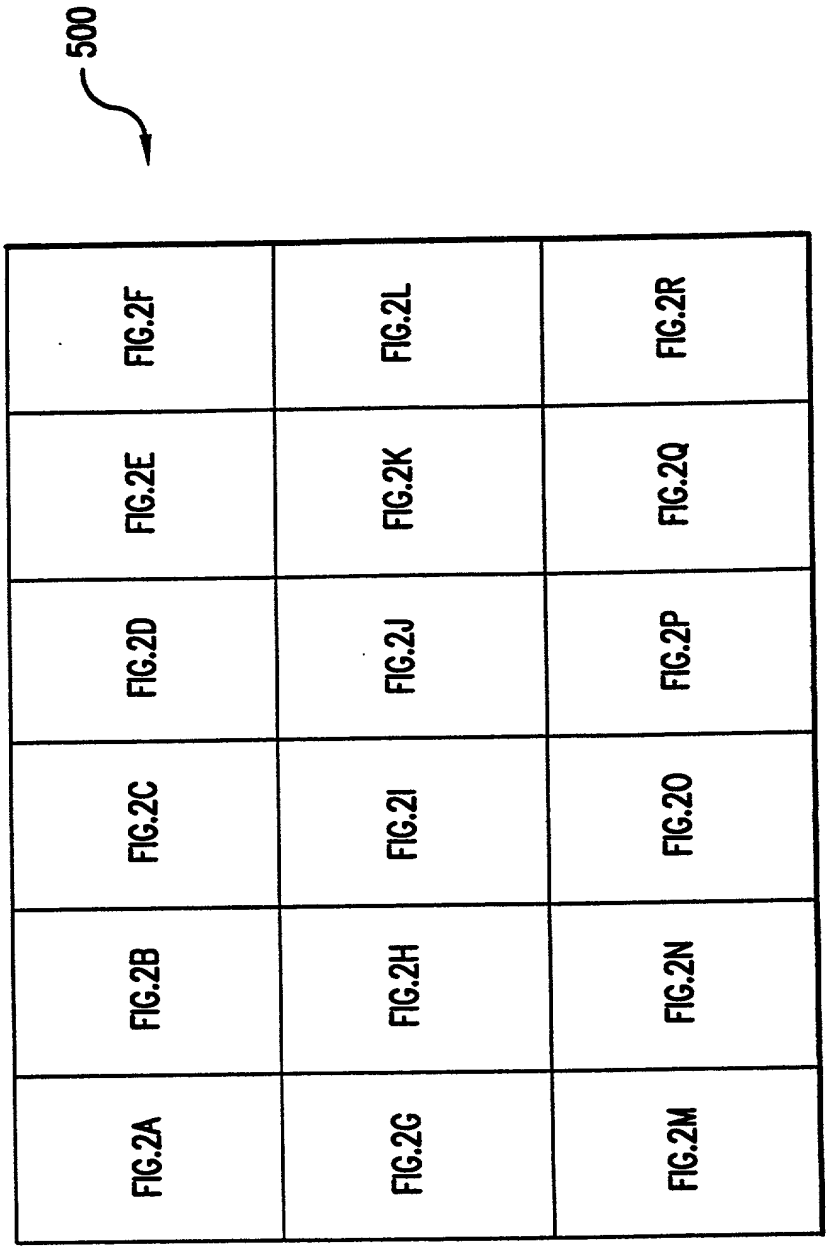

500
FIG.2A
FIG.2B
FIG.2C
FIG.2D
FIG.2E
FIG.2F
FIG.2G
FIG.2H
FIG.2I
FIG.2J
FIG.2K
FIG.2L
FIG.2M
FIG.2N
FIG.2O
FIG.2P
FIG.2Q
FIG.2R

FIG.2

FIG.2A

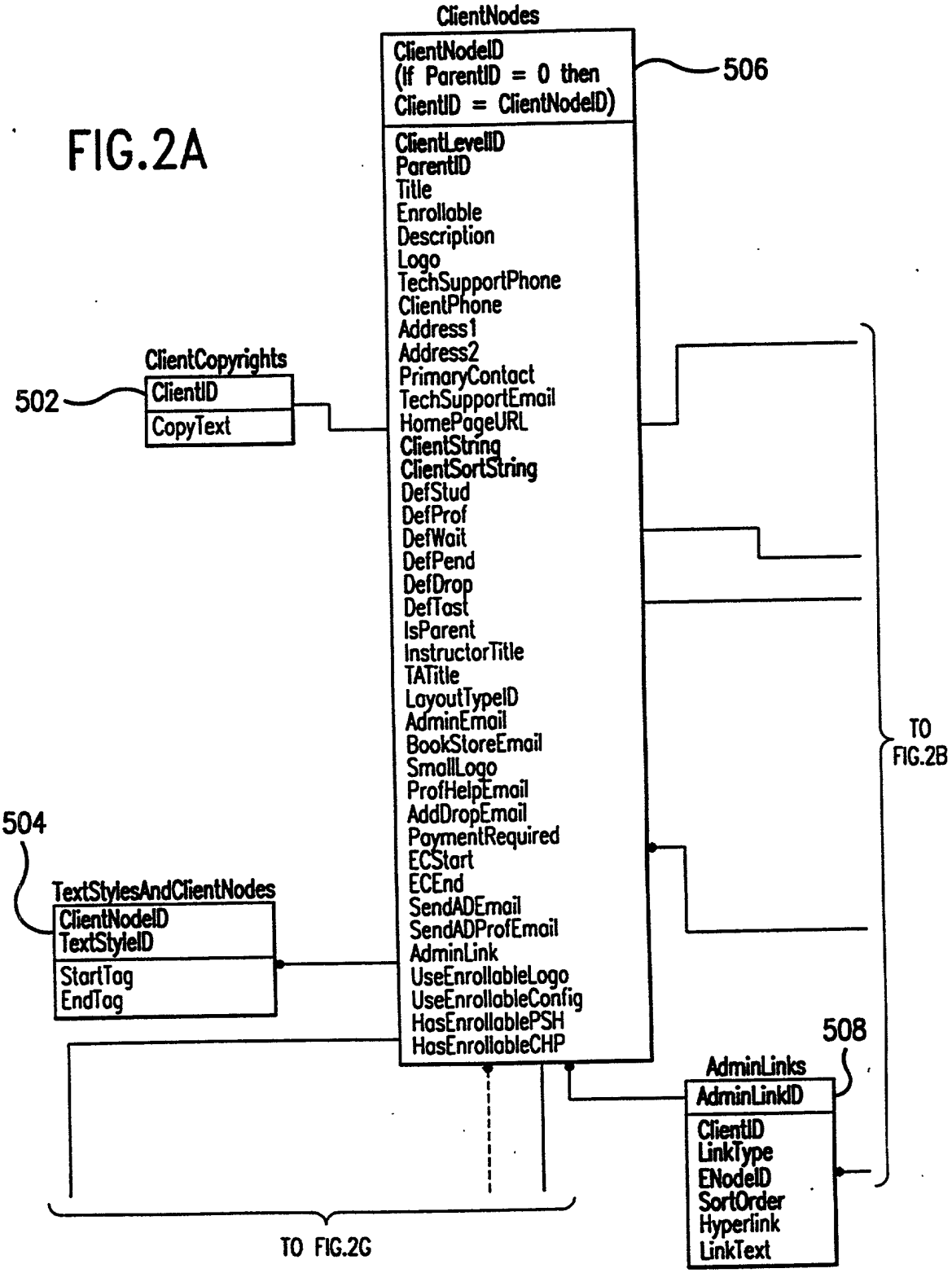
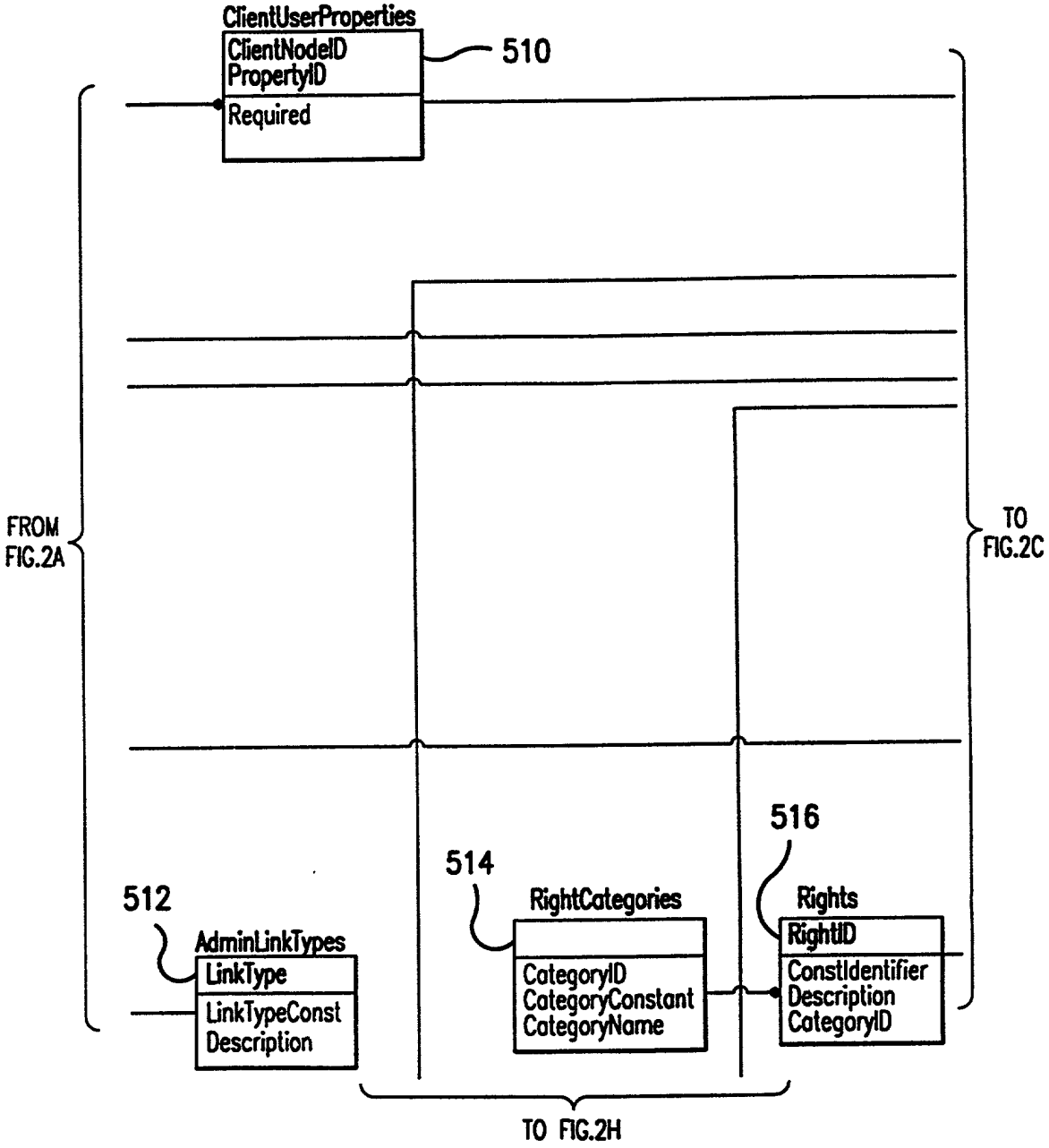

ClientNodes
ClientNodeID
(If ParentID = 0 then
ClientID = ClientNodeID)
506
ClientLevelID
ParentID
Title
Enrollable
Description
Logo
TechSupportPhone
ClientPhone
Address1
Address2
PrimaryContact
TechSupportEmail
HomePageURL
ClientString
ClientSortString
DefStud
DefProf
DefWait
DefPend
DefDrop
DefTast
IsParent
InstructorTitle
TATitle
LayoutTypeID
AdminEmail
BookStoreEmail
SmallLogo
ProfHelpEmail
AddDropEmail
PaymentRequired
ECStart
ECEnd
SendADEmail
SendADProfEmail
AdminLink
UseEnrollableLogo
UseEnrollableConfig
HasEnrollablePSH
HasEnrollableCHP
ClientCopyrights
502
ClientID
CopyText
504
TextStylesAndClientNodes
ClientNodeID
TextStyleID
StartTag
EndTag
508
AdminLinks
AdminLinkID
ClientID
LinkType
ENodeID
SortOrder
Hyperlink
LinkText
TO
FIG.2B
TO FIG.2G

FIG.2B


ClientUserProperties
ClientNodeID
PropertyID
Required
510
FROM
FIG.2A
TO
FIG.2C
512
AdminLinkTypes
LinkType
LinkTypeConst
Description
514
RightCategories
CategoryID
CategoryConstant
CategoryName
516
Rights
RightID
ConstIdentifier
Description
CategoryID
TO FIG.2H

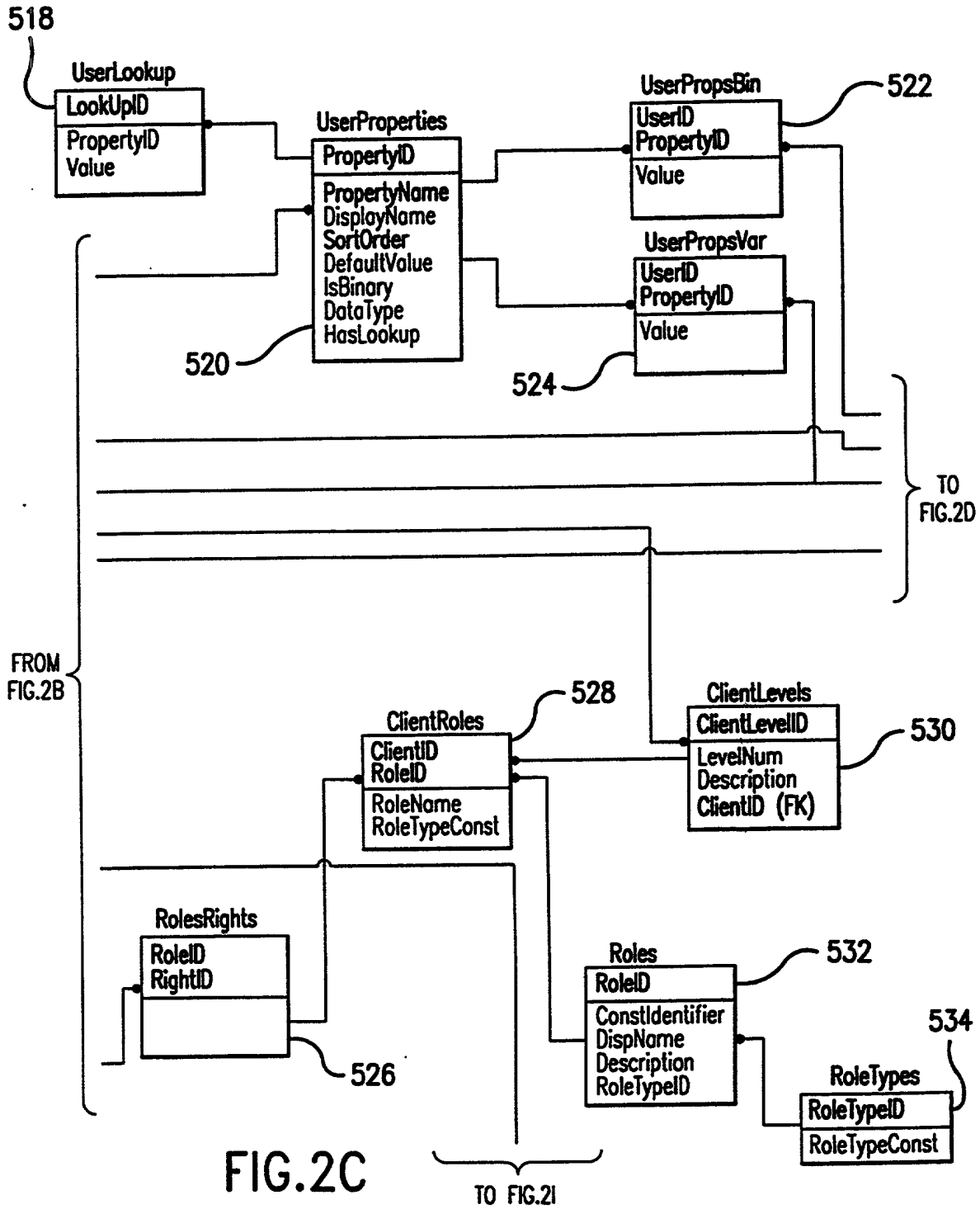

518
UserLookup
LookUpID
PropertyID
Value
UserProperties
PropertyID
PropertyName
DisplayName
SortOrder
DefaultValue
IsBinary
DataType
HasLookup
520
UserPropsBin
522
UserID
PropertyID
Value
UserPropsVar
UserID
PropertyID
Value
524
TO FIG.2D
FROM FIG.2B
ClientRoles
528
ClientID
RoleID
RoleName
RoleTypeConst
ClientLevels
ClientLevelID
LevelNum
Description
ClientID (FK)
530
RolesRights
RoleID
RightID
526
Roles
RoleID
ConstIdentifier
DispName
Description
RoleTypeID
532
534
RoleTypes
RoleTypeID
RoleTypeConst
TO FIG.2I

FIG.2C

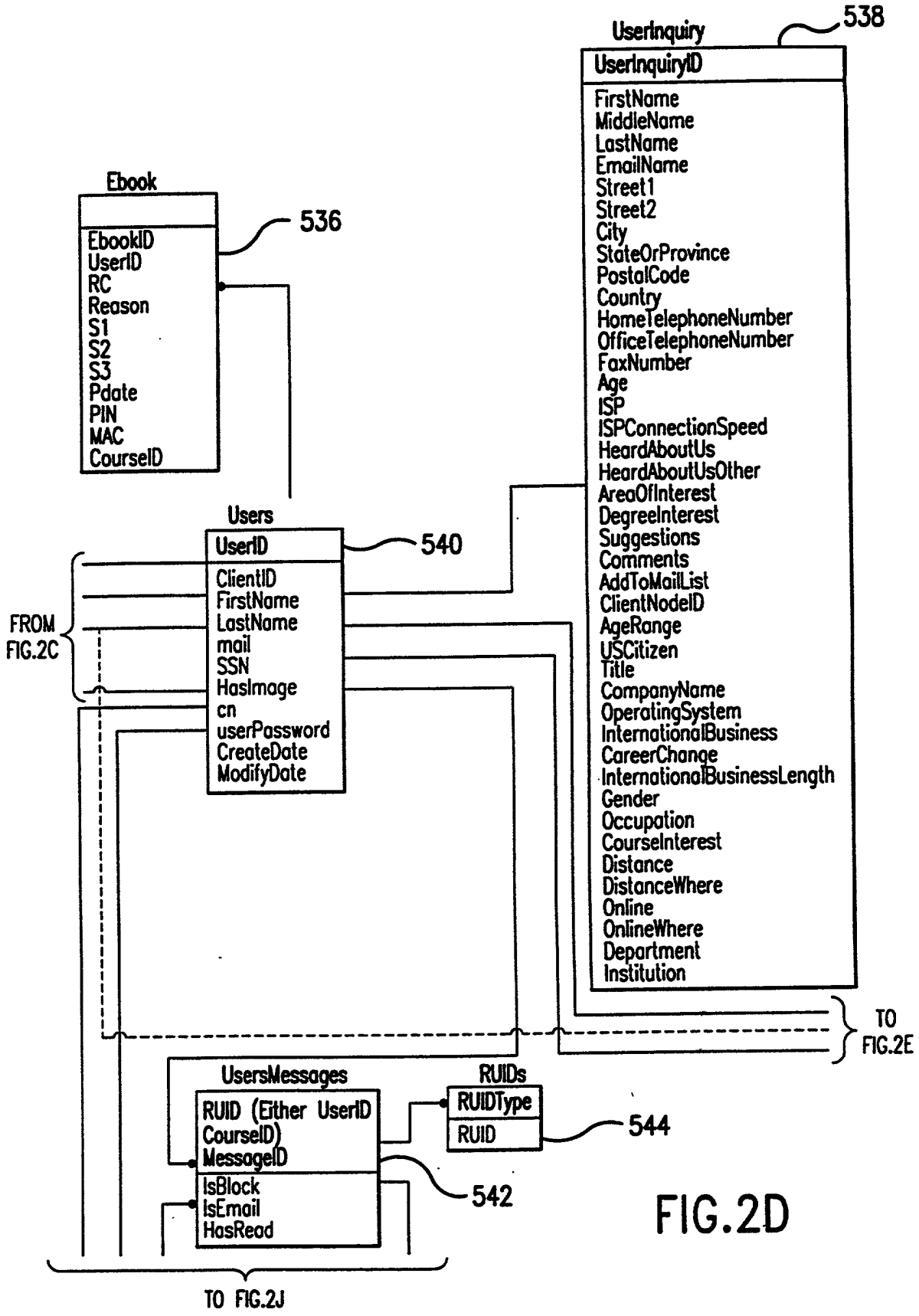

UserInquiry
538
UserInquiryID
FirstName
MiddleName
LastName
EmailName
Street1
Street2
City
StateOrProvince
PostalCode
Country
HomeTelephoneNumber
OfficeTelephoneNumber
FaxNumber
Age
ISP
ISPConnectionSpeed
HeardAboutUs
HeardAboutUsOther
AreaOfInterest
DegreeInterest
Suggestions
Comments
AddToMailList
ClientNodeID
AgeRange
USCitizen
Title
CompanyName
OperatingSystem
InternationalBusiness
CareerChange
InternationalBusinessLength
Gender
Occupation
CourseInterest
Distance
DistanceWhere
Online
OnlineWhere
Department
Institution
Ebook
536
EbookID
UserID
RC
Reason
S1
S2
S3
Pdate
PIN
MAC
CourseID
Users
UserID
540
ClientID
FirstName
LastName
mail
SSN
HasImage
cn
userPassword
CreateDate
ModifyDate
FROM
FIG.2C
TO
FIG.2E
UsersMessages
RUID (Either UserID
CourseID)
MessageID
IsBlock
IsEmail
HasRead
542
RUIDs
RUIDType
RUID
544
TO FIG.2J

FIG.2D

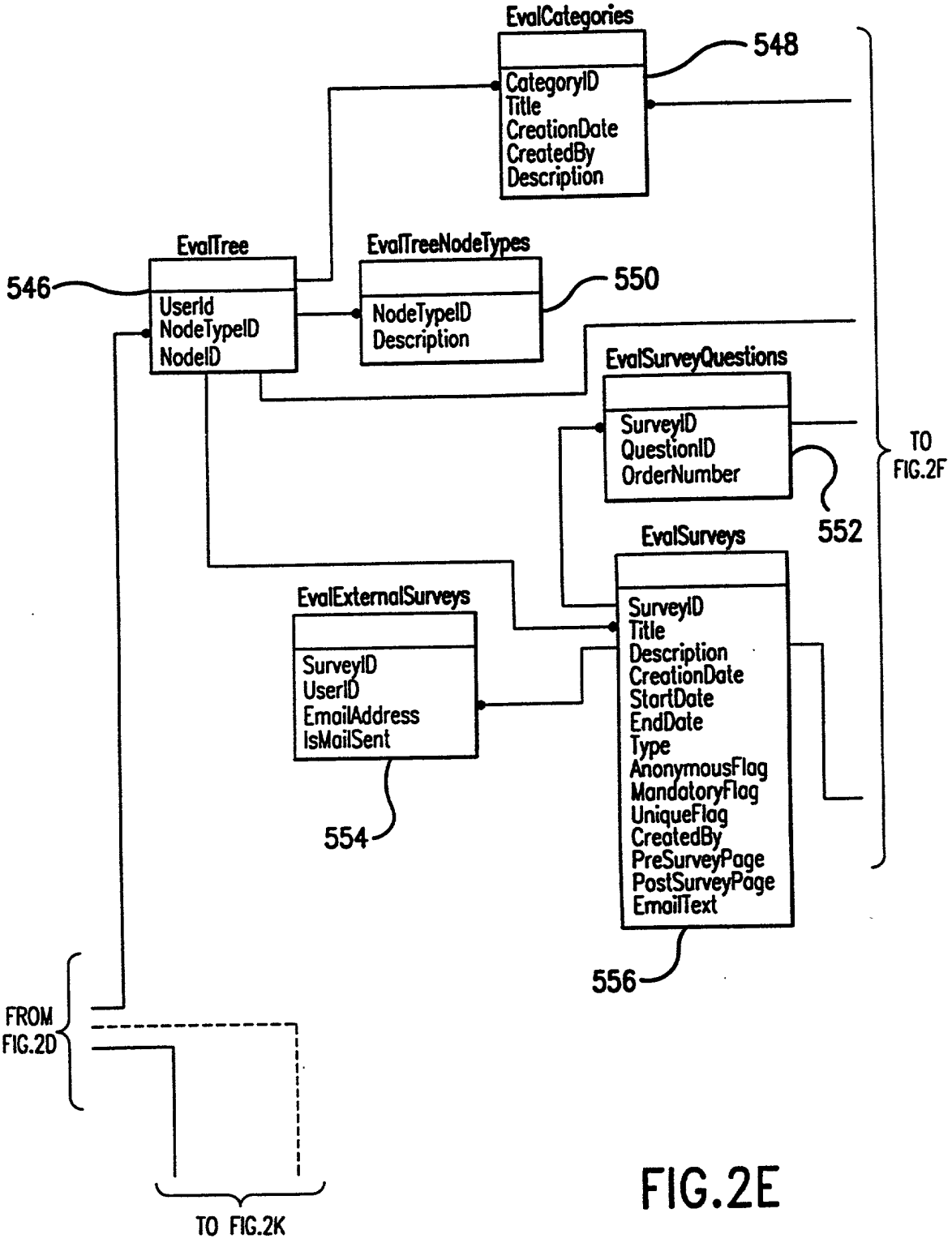

EvalCategories
548
CategoryID
Title
CreationDate
CreatedBy
Description
EvalTree
546
UserId
NodeTypeID
NodeID
EvalTreeNodeTypes
550
NodeTypeID
Description
EvalSurveyQuestions
SurveyID
QuestionID
OrderNumber
552
TO
FIG.2F
EvalSurveys
SurveyID
Title
Description
CreationDate
StartDate
EndDate
Type
AnonymousFlag
MandatoryFlag
UniqueFlag
CreatedBy
PreSurveyPage
PostSurveyPage
EmailText
556
EvalExternalSurveys
SurveyID
UserID
EmailAddress
IsMailSent
554
FROM
FIG.2D
TO FIG.2K

FIG.2E

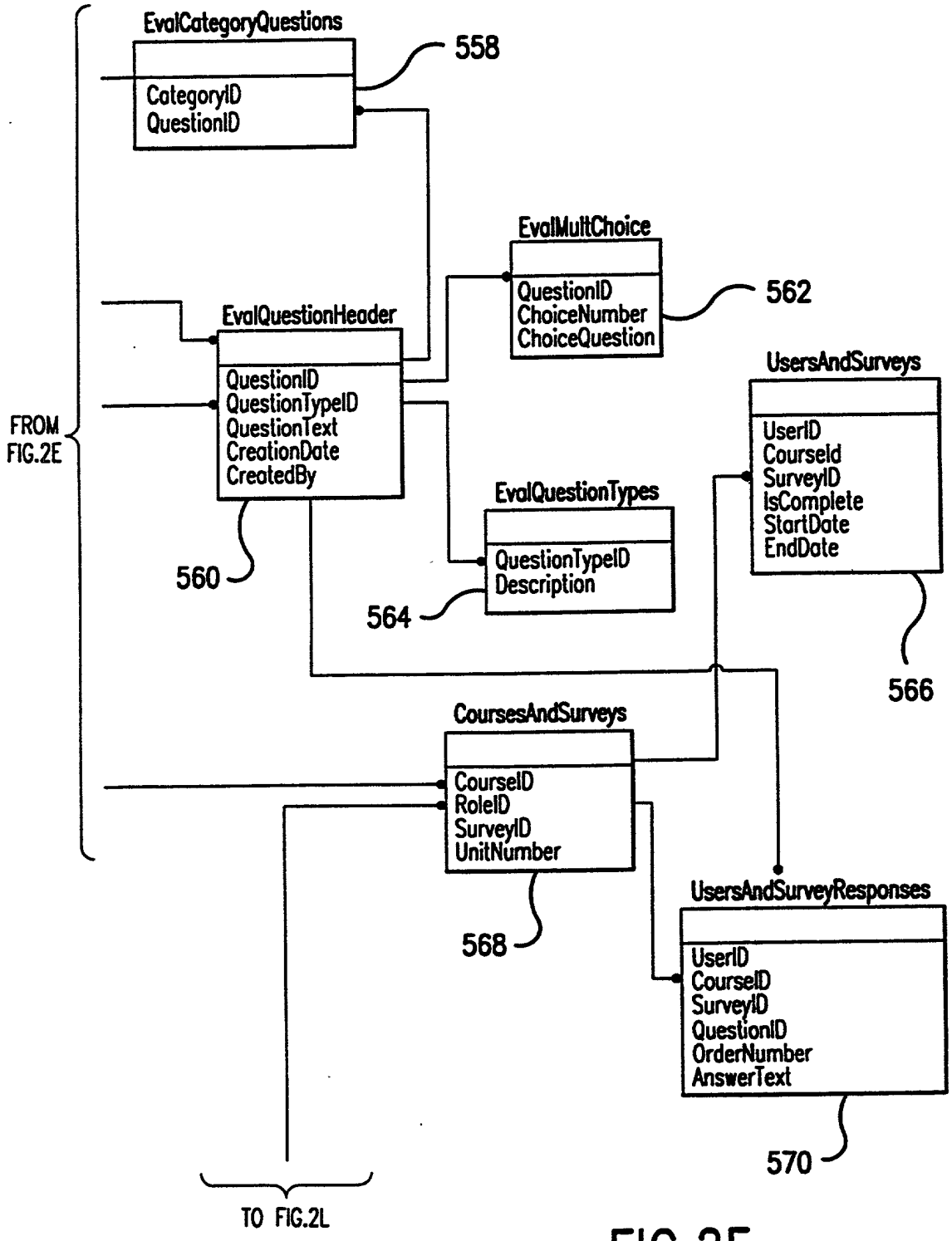

EvalCategoryQuestions
CategoryID
QuestionID
558
EvalMultChoice
QuestionID
ChoiceNumber
ChoiceQuestion
562
EvalQuestionHeader
QuestionID
QuestionTypeID
QuestionText
CreationDate
CreatedBy
560
FROM FIG.2E
EvalQuestionTypes
QuestionTypeID
Description
564
UsersAndSurveys
UserID
CourseId
SurveyID
IsComplete
StartDate
EndDate
566
CoursesAndSurveys
CourseID
RoleID
SurveyID
UnitNumber
568
UsersAndSurveyResponses
UserID
CourseID
SurveyID
QuestionID
OrderNumber
AnswerText
570
TO FIG.2L

FIG.2F

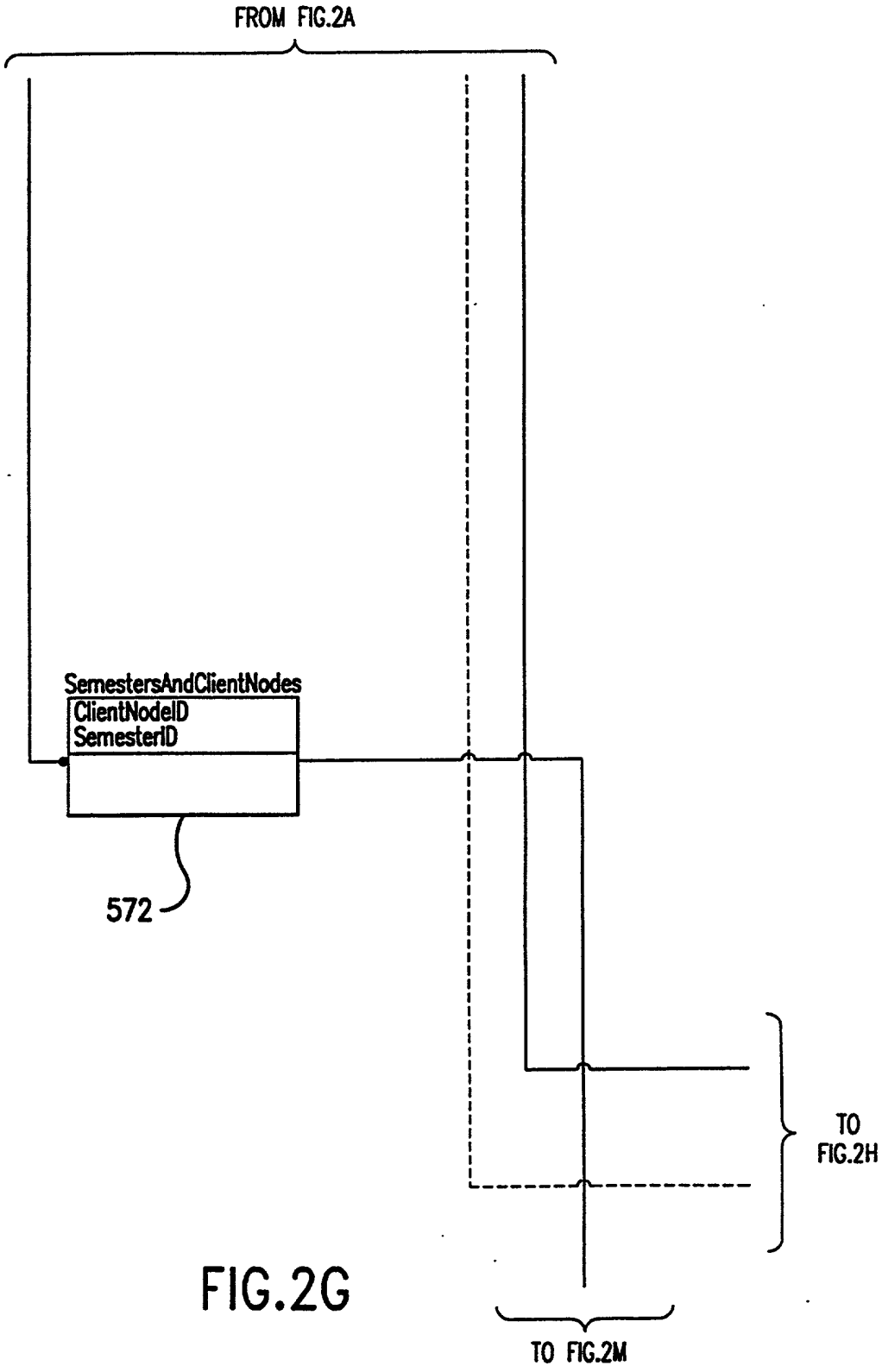

FROM FIG.2A
SemestersAndClientNodes
ClientNodeID
SemesterID
572
TO
FIG.2H
TO FIG.2M

FIG.2G

20050194500

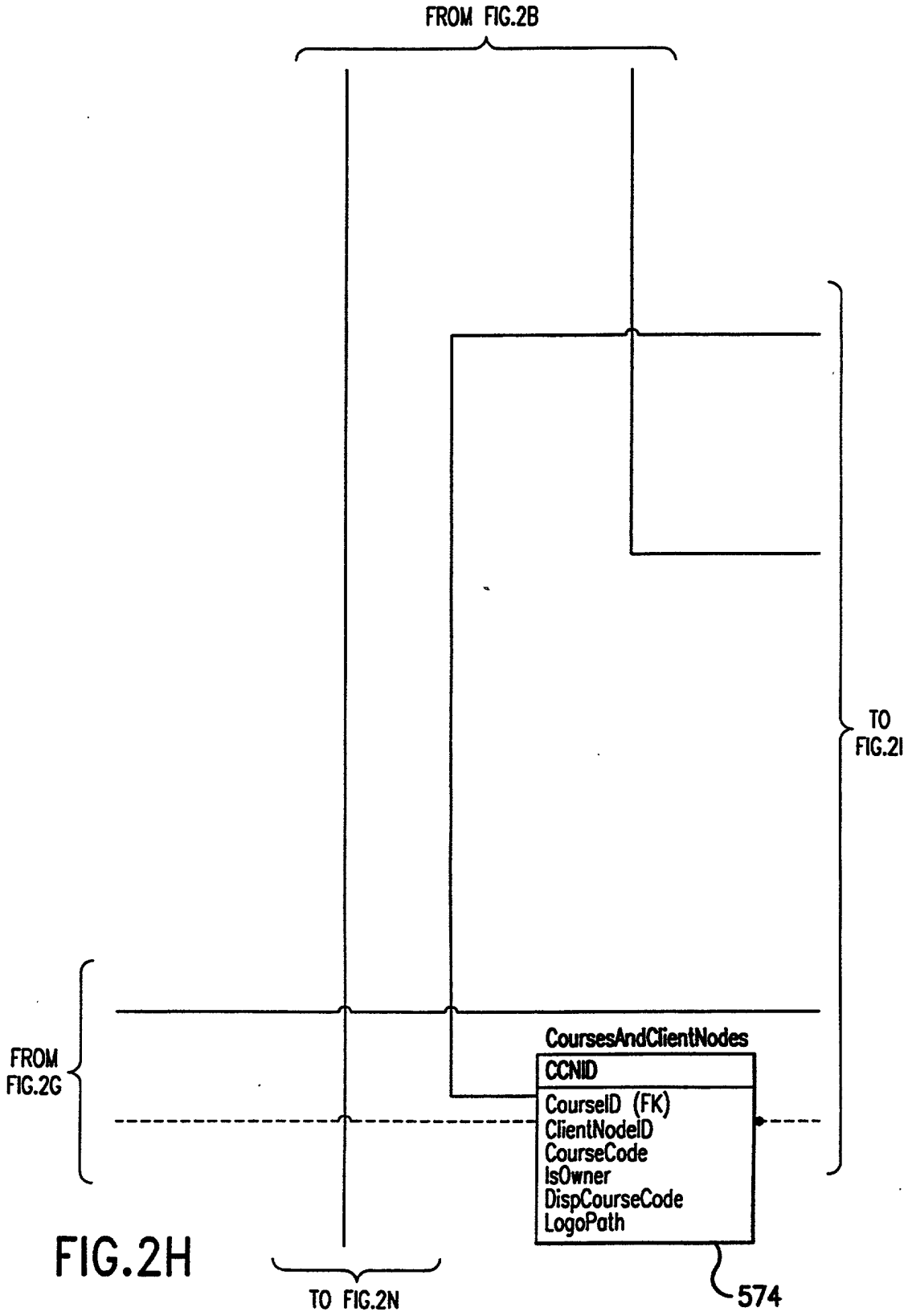


FIG.2H

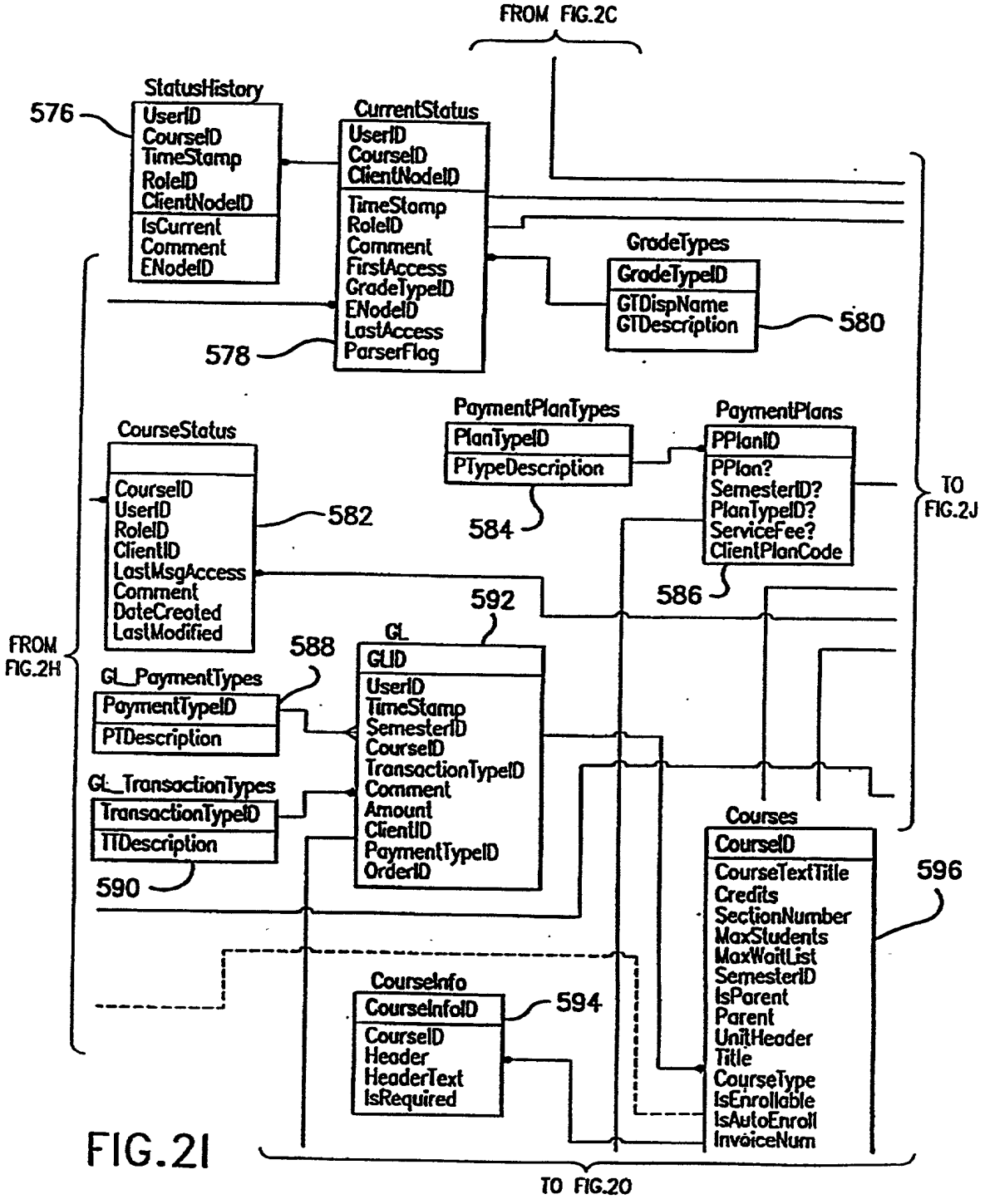

FROM FIG.2C
StatusHistory
576
UserID
CourseID
TimeStamp
RoleID
ClientNodeID
IsCurrent
Comment
ENodeID
CurrentStatus
UserID
CourseID
ClientNodeID
TimeStamp
RoleID
Comment
FirstAccess
GradeTypeID
ENodeID
LastAccess
ParserFlag
578
GradeTypes
GradeTypeID
GTDispName
GTDescription
580
PaymentPlanTypes
PlanTypeID
PTypeDescription
584
PaymentPlans
PPlanID
PPlan?
SemesterID?
PlanTypeID?
ServiceFee?
ClientPlanCode
586
TO FIG.2J
CourseStatus
CourseID
UserID
RoleID
ClientID
LastMsgAccess
Comment
DateCreated
LastModified
582
592
GL
GLID
UserID
TimeStamp
SemesterID
CourseID
TransactionTypeID
Comment
Amount
ClientID
PaymentTypeID
OrderID
588
GL_PaymentTypes
PaymentTypeID
PTDescription
GL_TransactionTypes
TransactionTypeID
TTDescription
590
FROM FIG.2H
Courses
CourseID
CourseTextTitle
Credits
SectionNumber
MaxStudents
MaxWaitList
SemesterID
IsParent
Parent
UnitHeader
Title
CourseType
IsEnrollable
IsAutoEnroll
InvoiceNum
596
CourseInfo
CourseInfoID
CourseID
Header
HeaderText
IsRequired
594
TO FIG.20

FIG.2I

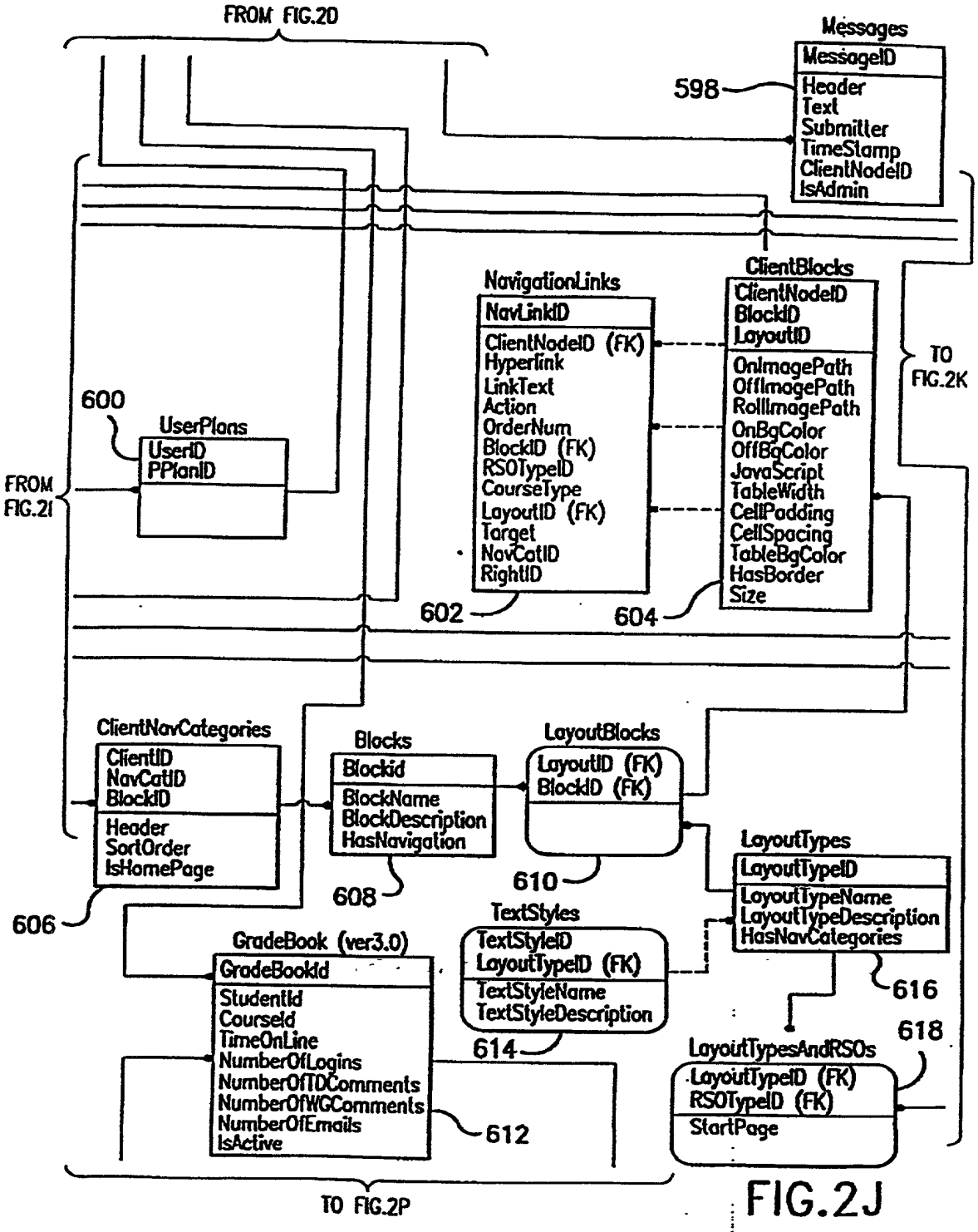

FROM FIG.2D
Messages
MessageID
Header
Text
Submitter
TimeStamp
ClientNodeID
IsAdmin
598
NavigationLinks
NavLinkID
ClientNodeID (FK)
Hyperlink
LinkText
Action
OrderNum
BlockID (FK)
RSOTypeID
CourseType
LayoutID (FK)
Target
NavCatID
RightID
602
ClientBlocks
ClientNodeID
BlockID
LayoutID
OnImagePath
OffImagePath
RollImagePath
OnBgColor
OffBgColor
JavaScript
TableWidth
CellPadding
CellSpacing
TableBgColor
HasBorder
Size
604
TO FIG.2K
600
UserPlans
UserID
PPlanID
FROM FIG.2I
ClientNavCategories
ClientID
NavCatID
BlockID
Header
SortOrder
IsHomePage
606
Blocks
BlockId
BlockName
BlockDescription
HasNavigation
608
LayoutBlocks
LayoutID (FK)
BlockID (FK)
610
LayoutTypes
LayoutTypeID
LayoutTypeName
LayoutTypeDescription
HasNavCategories
616
618
TextStyles
TextStyleID
LayoutTypeID (FK)
TextStyleName
TextStyleDescription
614
GradeBook (ver3.0)
GradeBookId
StudentId
CourseId
TimeOnLine
NumberOfLogins
NumberOfTDComments
NumberOfWGComments
NumberOfEmails
IsActive
612
LayoutTypesAndRSOs
LayoutTypeID (FK)
RSOTypeID (FK)
StartPage
TO FIG.2P

FIG.2J

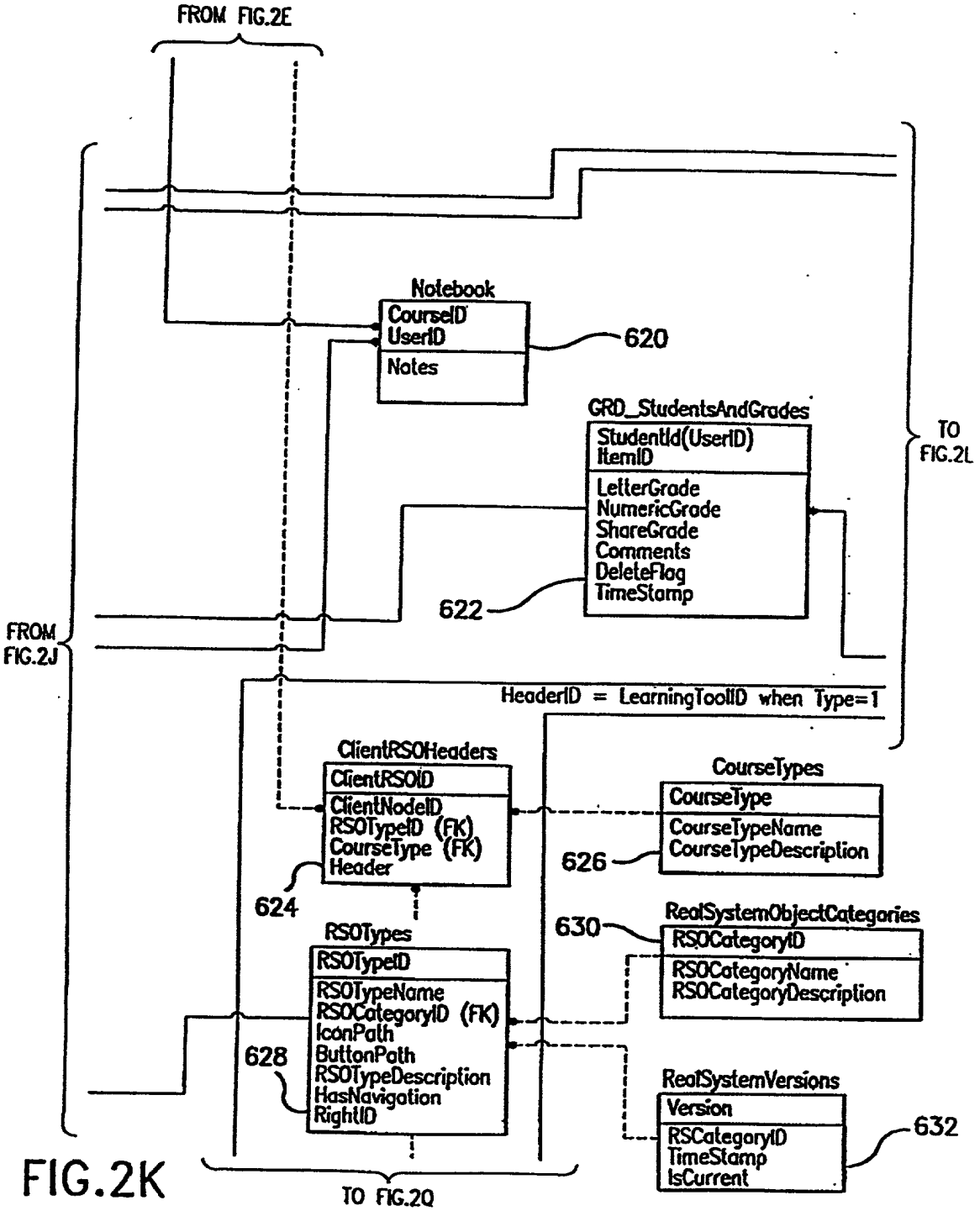

FROM FIG.2E
Notebook
CourseID
UserID
Notes
620
GRD_StudentsAndGrades
StudentId(UserID)
ItemID
LetterGrade
NumericGrade
ShareGrade
Comments
DeleteFlag
TimeStamp
622
TO FIG.2L
FROM FIG.2J
HeaderID = LearningToolID when Type=1
ClientRSOHeaders
ClientRSOID
ClientNodeID
RSOTypeID (FK)
CourseType (FK)
Header
624
CourseTypes
CourseType
CourseTypeName
CourseTypeDescription
626
RealSystemObjectCategories
630
RSOCategoryID
RSOCategoryName
RSOCategoryDescription
RSOTypes
RSOTypeID
RSOTypeName
RSOCategoryID (FK)
IconPath
ButtonPath
RSOTypeDescription
HasNavigation
RightID
628
RealSystemVersions
Version
RSCategoryID
TimeStamp
IsCurrent
632
TO FIG.2Q

FIG.2K

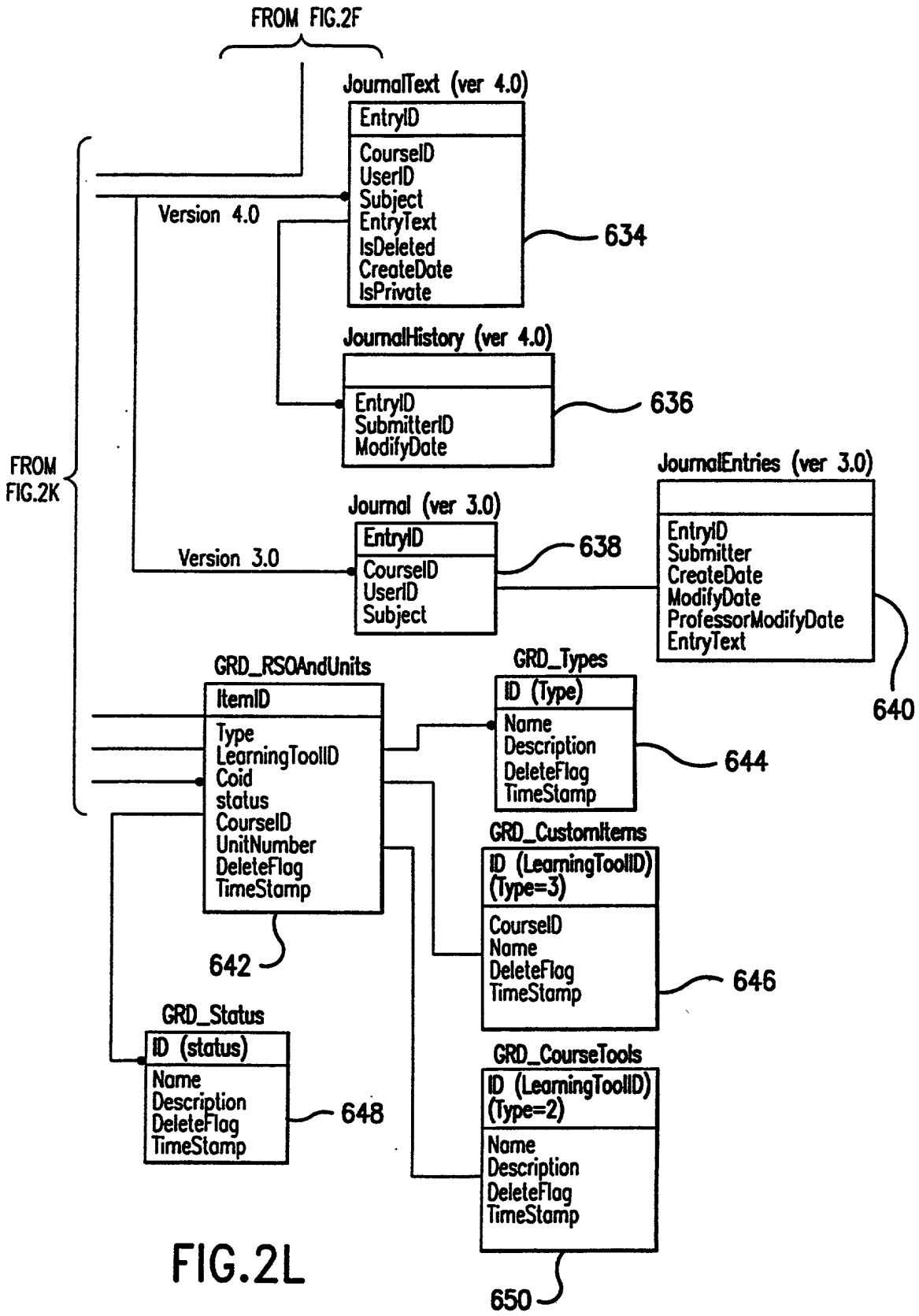

FROM FIG.2F
JournalText (ver 4.0)
EntryID
CourseID
UserID
Subject
EntryText
IsDeleted
CreateDate
IsPrivate
634
Version 4.0
JournalHistory (ver 4.0)
EntryID
SubmitterID
ModifyDate
636
FROM FIG.2K
JournalEntries (ver 3.0)
EntryID
Submitter
CreateDate
ModifyDate
ProfessorModifyDate
EntryText
640
Journal (ver 3.0)
EntryID
CourseID
UserID
Subject
638
Version 3.0
GRD_RSOAndUnits
ItemID
Type
LearningToolID
Coid
status
CourseID
UnitNumber
DeleteFlag
TimeStamp
642
GRD_Types
ID (Type)
Name
Description
DeleteFlag
TimeStamp
644
GRD_CustomItems
ID (LearningToolID) (Type=3)
CourseID
Name
DeleteFlag
TimeStamp
646
GRD_Status
ID (status)
Name
Description
DeleteFlag
TimeStamp
648
GRD_CourseTools
ID (LearningToolID) (Type=2)
Name
Description
DeleteFlag
TimeStamp
650

FIG.2L

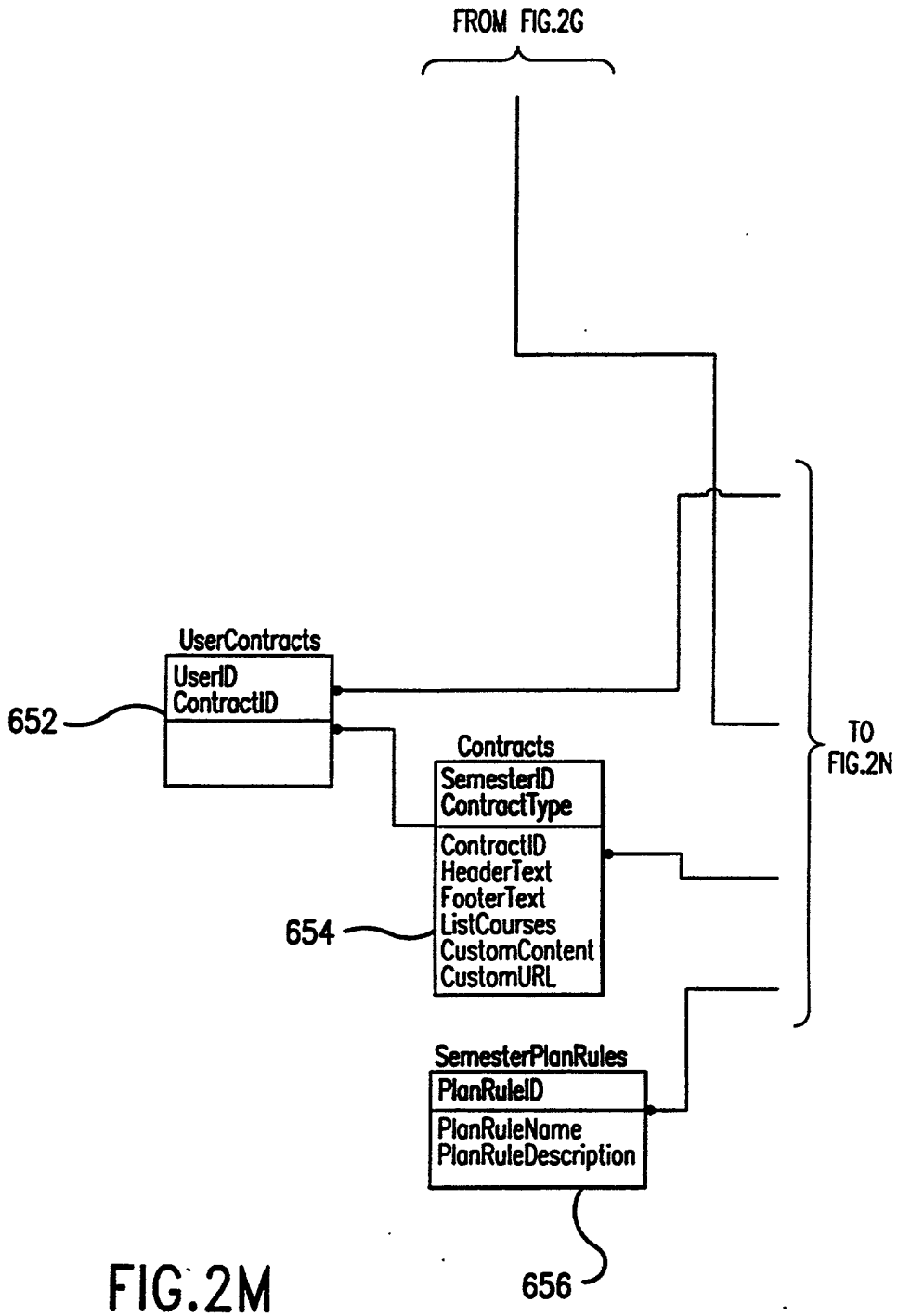

FROM FIG.2G
UserContracts
UserID
ContractID
652
Contracts
SemesterID
ContractType
ContractID
HeaderText
FooterText
ListCourses
CustomContent
CustomURL
654
SemesterPlanRules
PlanRuleID
PlanRuleName
PlanRuleDescription
656
TO
FIG.2N

FIG.2M

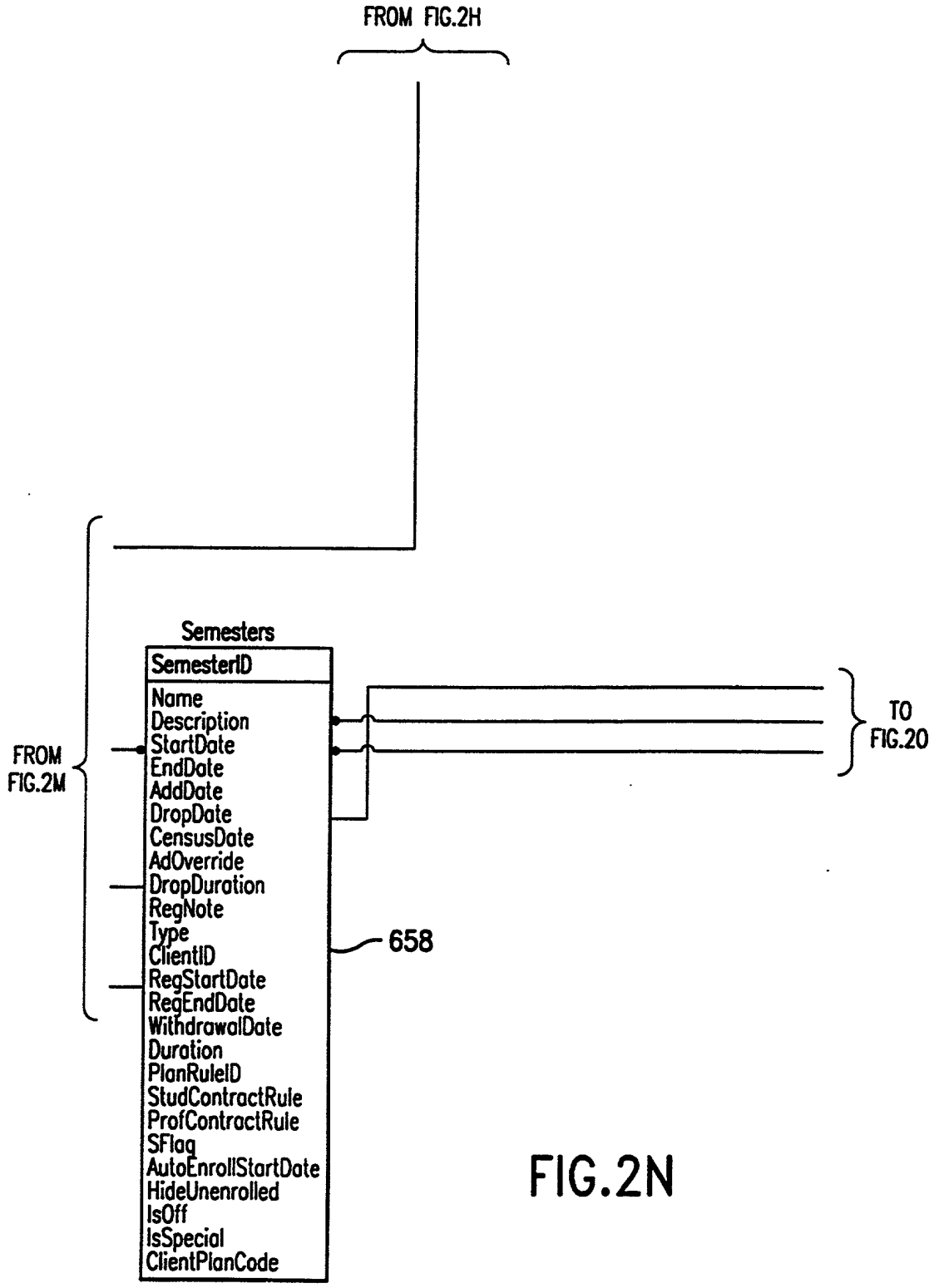

FROM FIG.2H
Semesters
SemesterID
Name
Description
StartDate
EndDate
AddDate
DropDate
CensusDate
AdOverride
DropDuration
RegNote
Type
ClientID
RegStartDate
RegEndDate
WithdrawalDate
Duration
PlanRuleID
StudContractRule
ProfContractRule
SFlag
AutoEnrollStartDate
HideUnenrolled
IsOff
IsSpecial
ClientPlanCode
FROM FIG.2M
TO FIG.20
658

FIG.2N

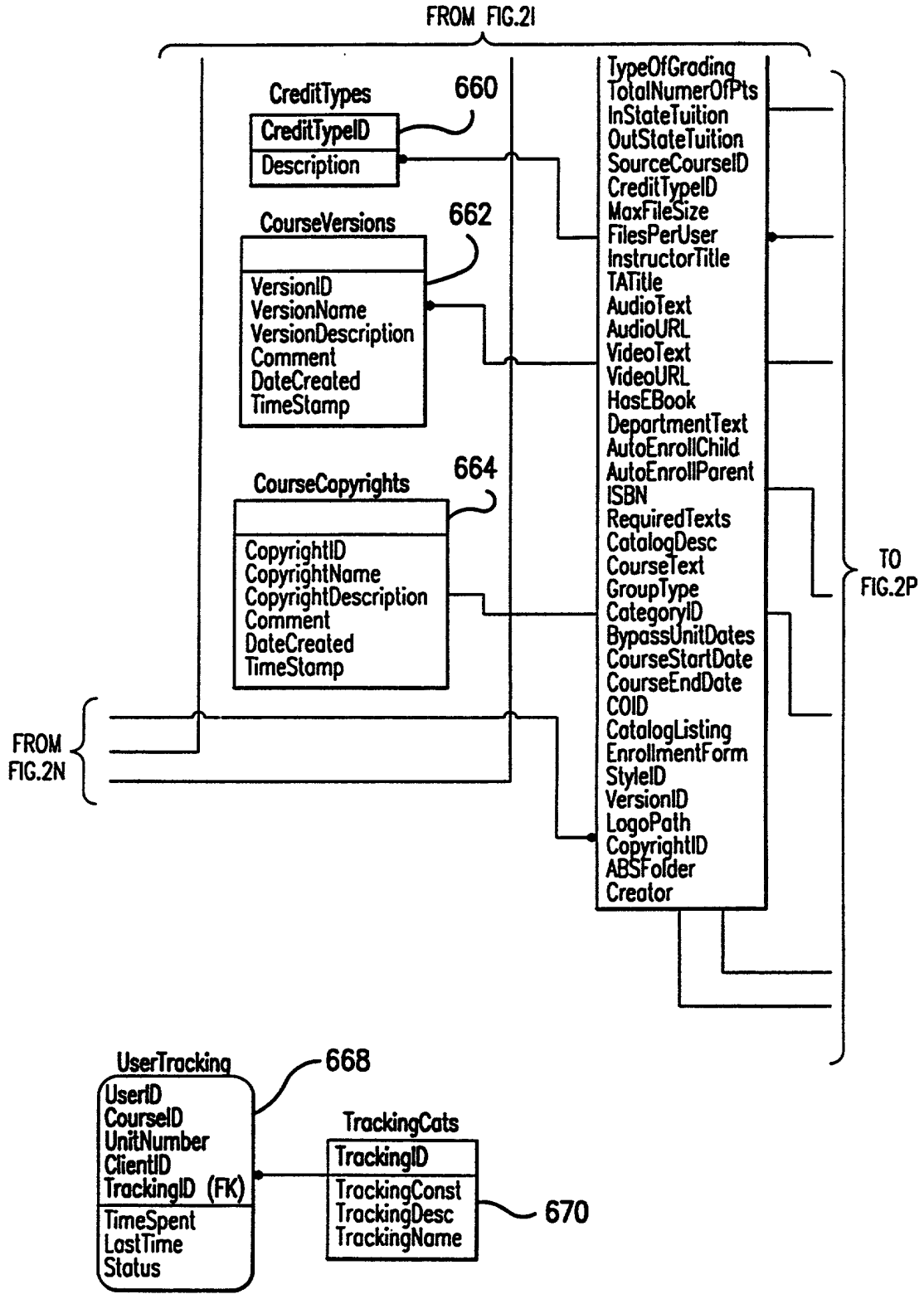


FIG.20

Docket #11610.02

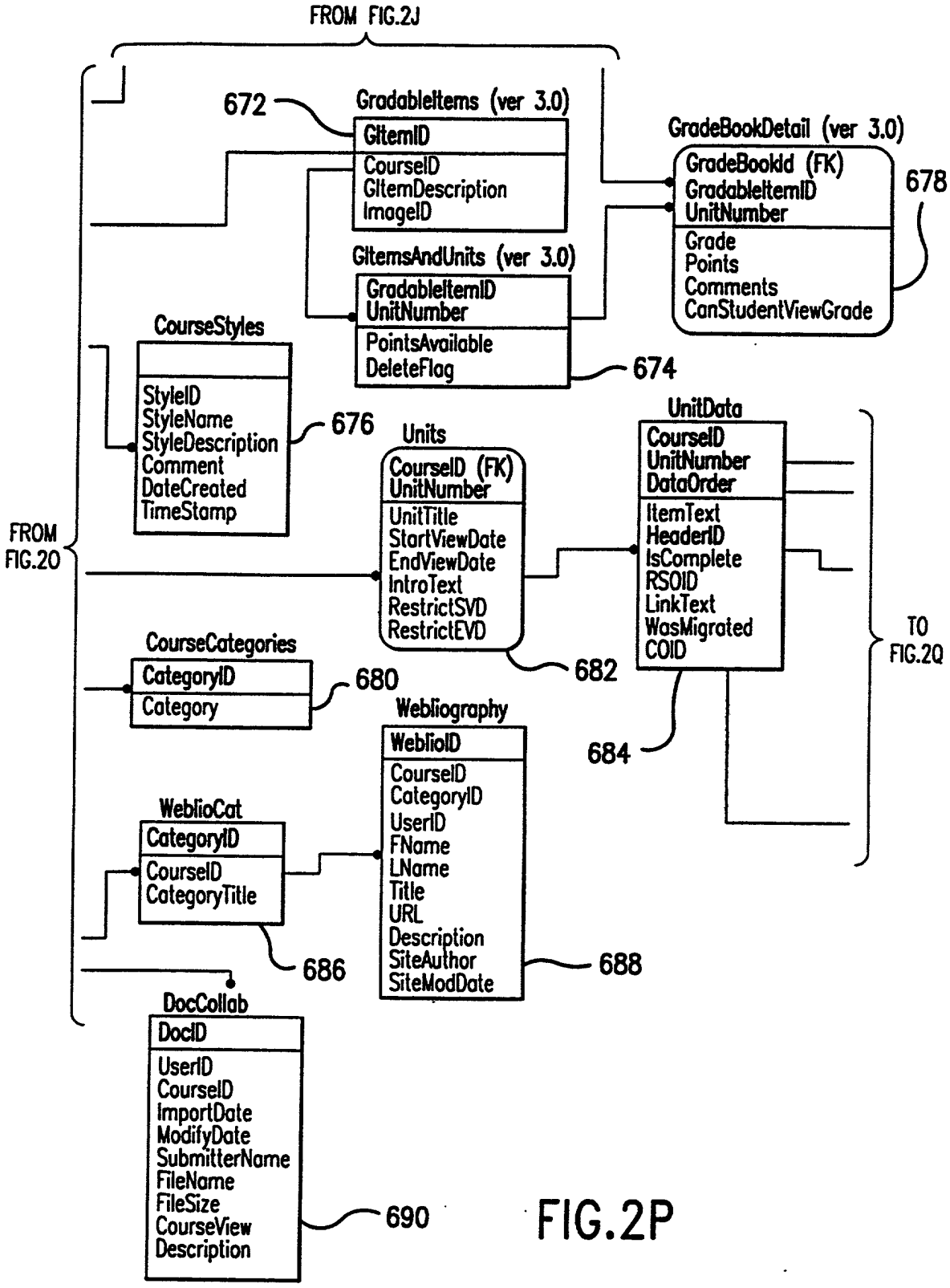

FROM FIG.2J
672
GradableItems (ver 3.0)
GItemID
CourseID
GItemDescription
ImageID
GradeBookDetail (ver 3.0)
GradeBookId (FK)
GradableItemID
UnitNumber
Grade
Points
Comments
CanStudentViewGrade
678
GItemsAndUnits (ver 3.0)
GradableItemID
UnitNumber
PointsAvailable
DeleteFlag
674
CourseStyles
StyleID
StyleName
StyleDescription
Comment
DateCreated
TimeStamp
676
Units
CourseID (FK)
UnitNumber
UnitTitle
StartViewDate
EndViewDate
IntroText
RestrictSVD
RestrictEVD
682
UnitData
CourseID
UnitNumber
DataOrder
ItemText
HeaderID
IsComplete
RSOID
LinkText
WasMigrated
COID
684
FROM FIG.20
TO FIG.2Q
CourseCategories
CategoryID
Category
680
Webliography
WeblioID
CourseID
CategoryID
UserID
FName
LName
Title
URL
Description
SiteAuthor
SiteModDate
688
WeblioCat
CategoryID
CourseID
CategoryTitle
686
DocCollab
DocID
UserID
CourseID
ImportDate
ModifyDate
SubmitterName
FileName
FileSize
CourseView
Description
690

FIG.2P

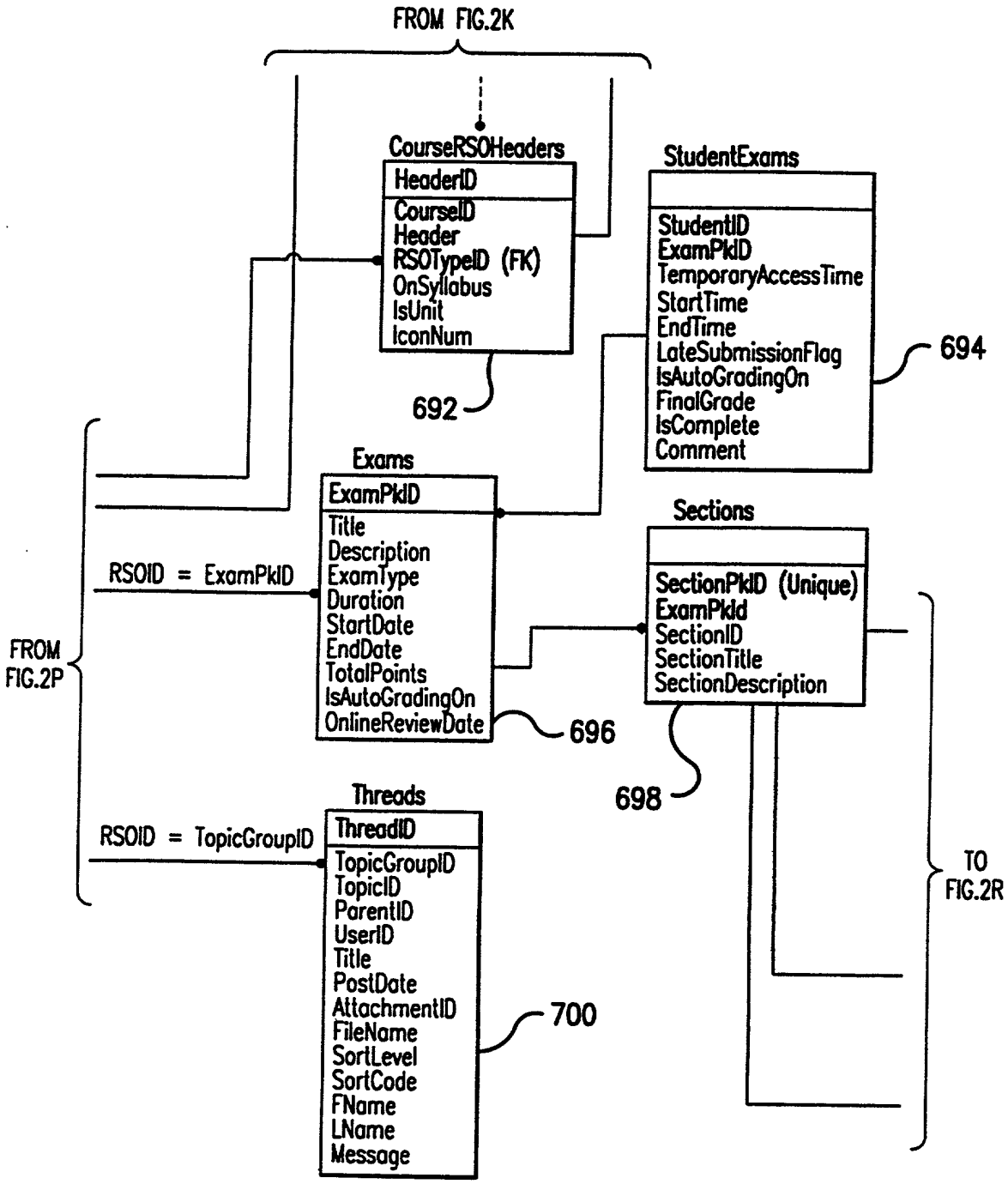

FROM FIG.2K
CourseRSOHeaders
HeaderID
CourseID
Header
RSOTypeID (FK)
OnSyllabus
IsUnit
IconNum
692
StudentExams
StudentID
ExamPkID
TemporaryAccessTime
StartTime
EndTime
LateSubmissionFlag
IsAutoGradingOn
FinalGrade
IsComplete
Comment
694
Exams
ExamPkID
Title
Description
ExamType
Duration
StartDate
EndDate
TotalPoints
IsAutoGradingOn
OnlineReviewDate
696
RSOID = ExamPkID
Sections
SectionPkID (Unique)
ExamPkId
SectionID
SectionTitle
SectionDescription
698
FROM
FIG.2P
Threads
ThreadID
TopicGroupID
TopicID
ParentID
UserID
Title
PostDate
AttachmentID
FileName
SortLevel
SortCode
FName
LName
Message
700
RSOID = TopicGroupID
TO
FIG.2R

FIG.2Q

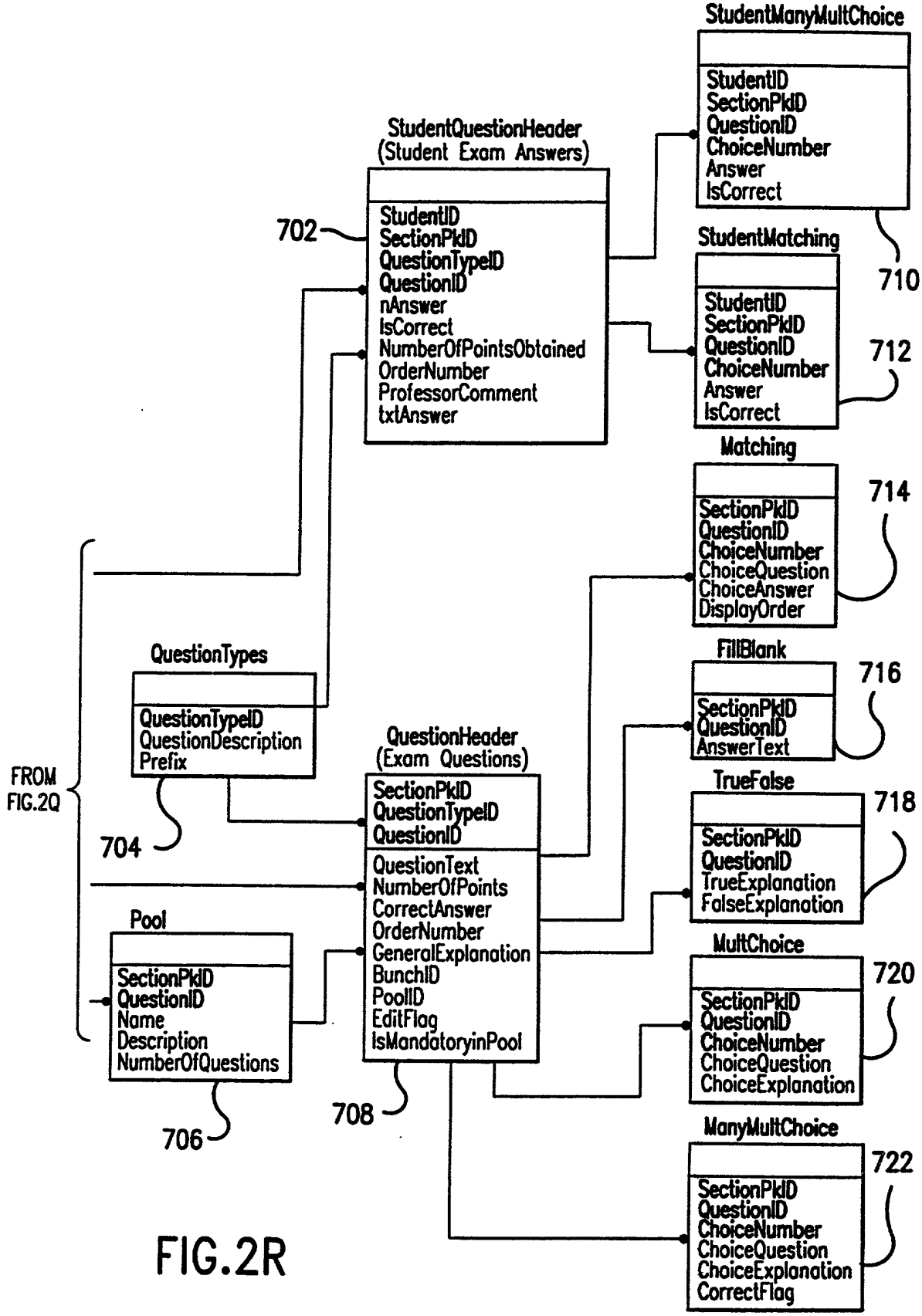

StudentManyMultChoice
StudentID
SectionPkID
QuestionID
ChoiceNumber
Answer
IsCorrect
710
StudentQuestionHeader
(Student Exam Answers)
702
StudentID
SectionPkID
QuestionTypeID
QuestionID
nAnswer
IsCorrect
NumberOfPointsObtained
OrderNumber
ProfessorComment
txtAnswer
StudentMatching
StudentID
SectionPkID
QuestionID
ChoiceNumber
Answer
IsCorrect
712
Matching
SectionPkID
QuestionID
ChoiceNumber
ChoiceQuestion
ChoiceAnswer
DisplayOrder
714
QuestionTypes
QuestionTypeID
QuestionDescription
Prefix
704
FROM
FIG.2Q
FillBlank
SectionPkID
QuestionID
AnswerText
716
QuestionHeader
(Exam Questions)
SectionPkID
QuestionTypeID
QuestionID
QuestionText
NumberOfPoints
CorrectAnswer
OrderNumber
GeneralExplanation
BunchID
PoolID
EditFlag
IsMandatoryinPool
708
TrueFalse
SectionPkID
QuestionID
TrueExplanation
FalseExplanation
718
Pool
SectionPkID
QuestionID
Name
Description
NumberOfQuestions
706
MultChoice
SectionPkID
QuestionID
ChoiceNumber
ChoiceQuestion
ChoiceExplanation
720
ManyMultChoice
SectionPkID
QuestionID
ChoiceNumber
ChoiceQuestion
ChoiceExplanation
CorrectFlag
722

FIG.2R

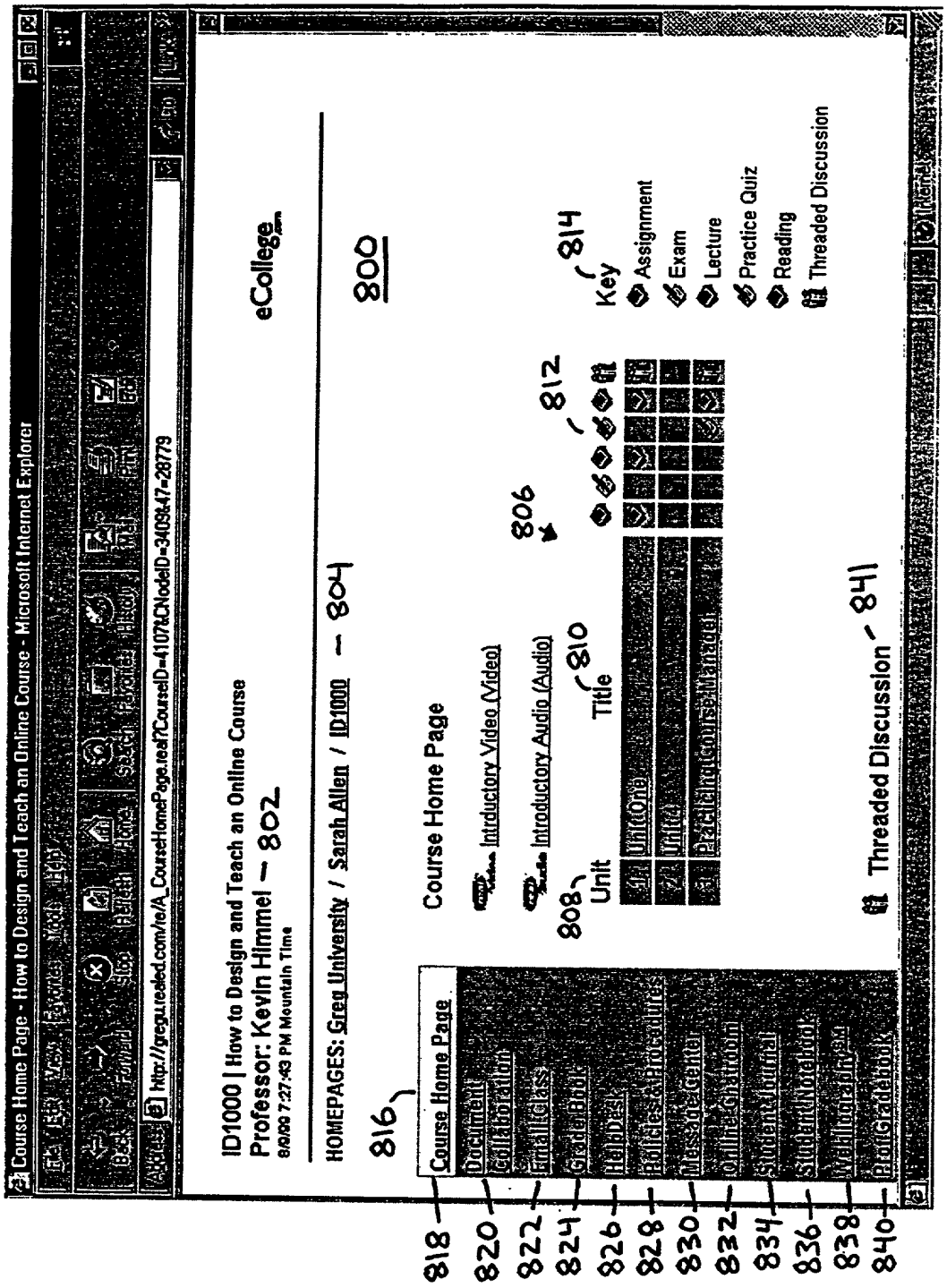

Course Home Page - How to Design and Teach an Online Course - Microsoft Internet Explorer
http://gregu.reaied.com/re/A_CourseHomePage.reaf?CourseID=4107&CNodeID=34098-47=28779
ID1000 | How to Design and Teach an Online Course
Professor: Kevin Himmel – 802
8/8/00 7:27:43 PM Mountain Time
eCollege
800
HOMEPAGES: Greg University / Sarah Allen / ID1000 – 804
816
Course Home Page
DoCument
Collaboration
Email Class
Grade Book
Help Desk
Roles & Procedures
Message Center
Online Classroom
Student Journal
Student Notebook
Web Image Library
Prof Gradebook
Course Home Page
Introductory Video (Video)
Introductory Audio (Audio)
806
812
808
Unit
Title
810
814
Key
Assignment
Exam
Lecture
Practice Quiz
Reading
Threaded Discussion
Unit One
Unit 2
Unit 3
Practicing Courses Managed
Threaded Discussion – 841
818
820
822
824
826
828
830
832
834
836
838
840

FIG. 3A

ELECTRONIC EDITOR TOOL FOR EDUCATIONAL COURSES...
Atty.Dkt.No. 11610.02
Customer No. 20686

Course Home Page – student view

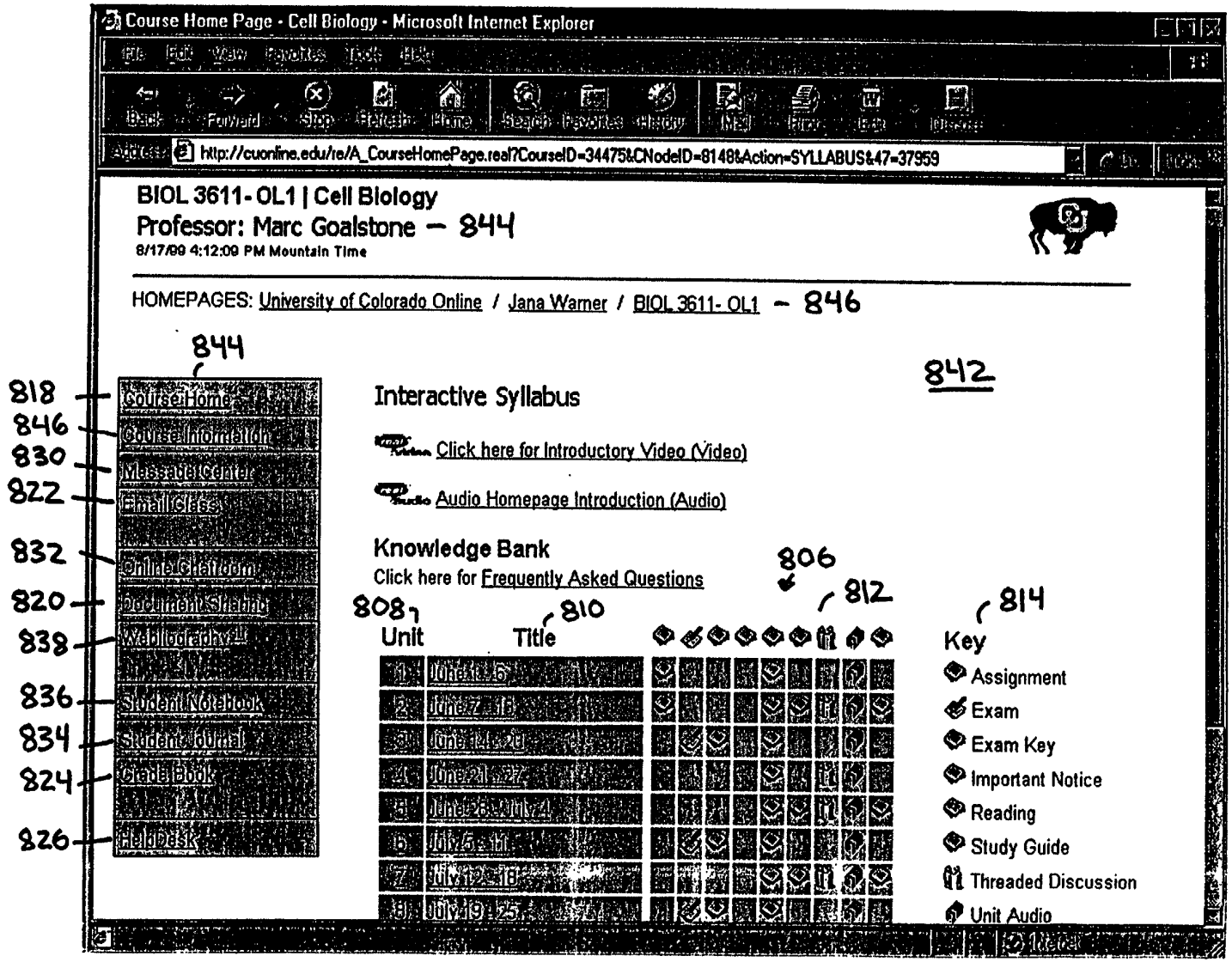


FIG 3B

2092h0" h67T9001

Document Sharing/Collaboration

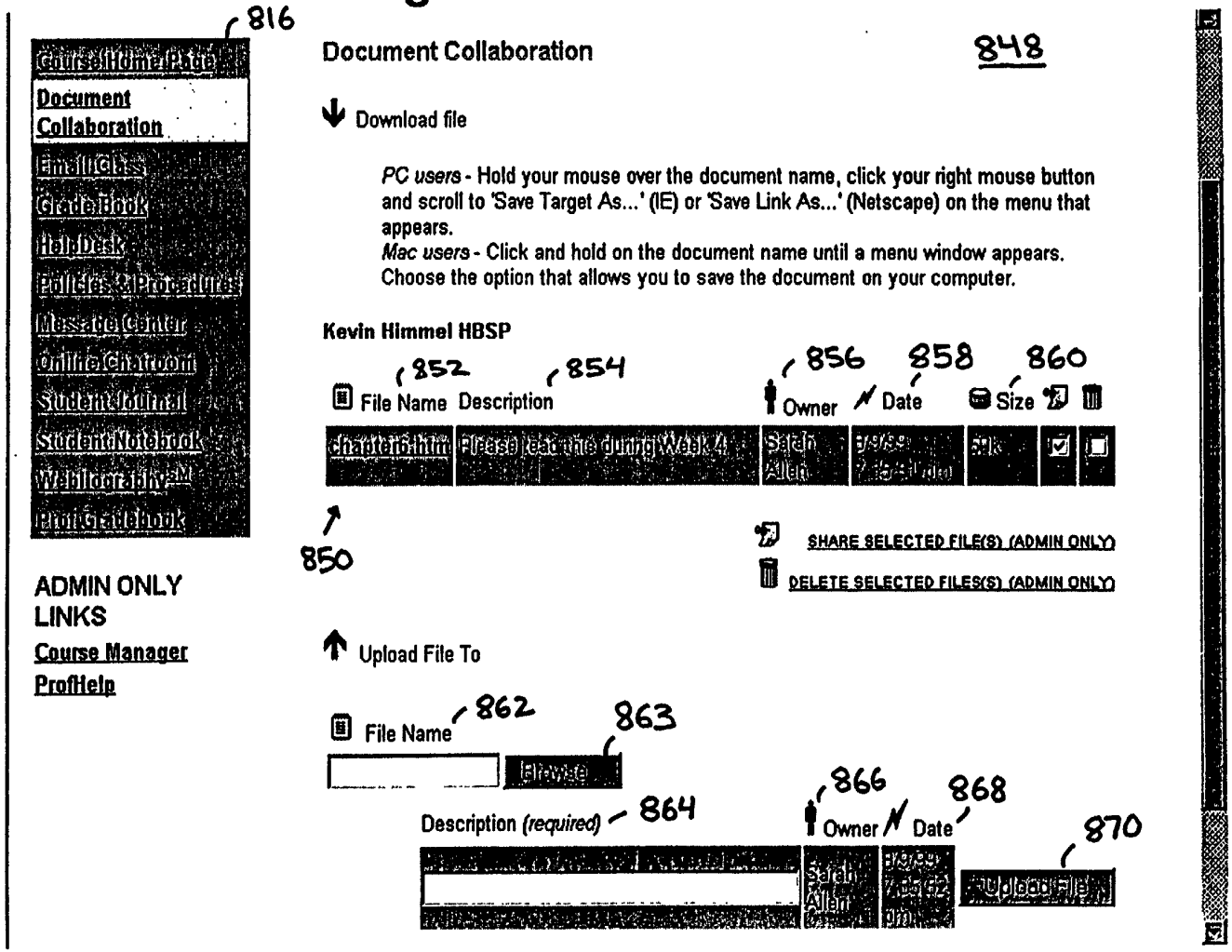


FIG. 3C

ELECTRONIC EDITOR TOOL FOR EDUCATIONAL COURSES...
Atty.Dkt.No. 11610.02
Customer No. 20686

20924O"467190OT

email class

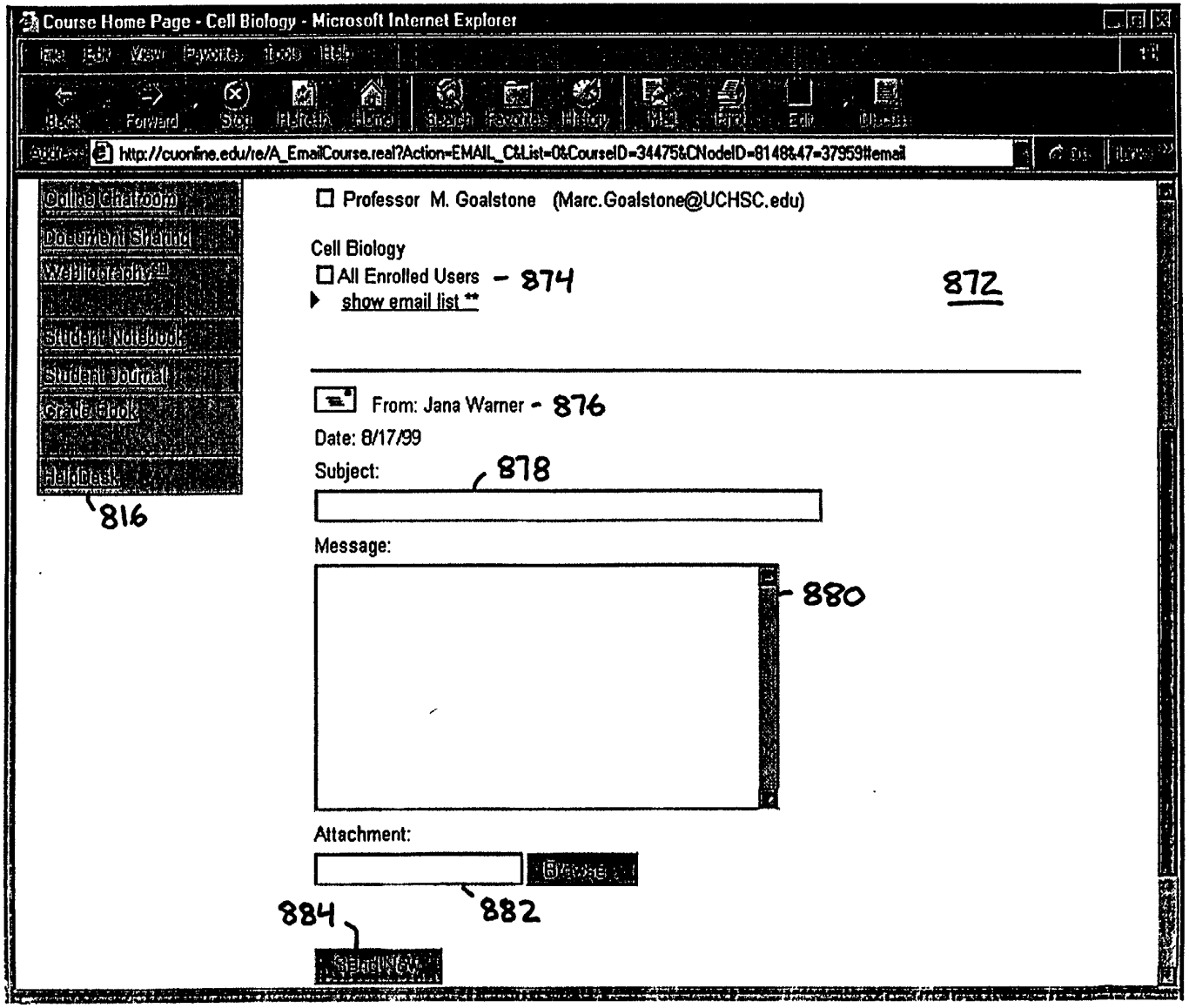


FIG 3D

Gradebook

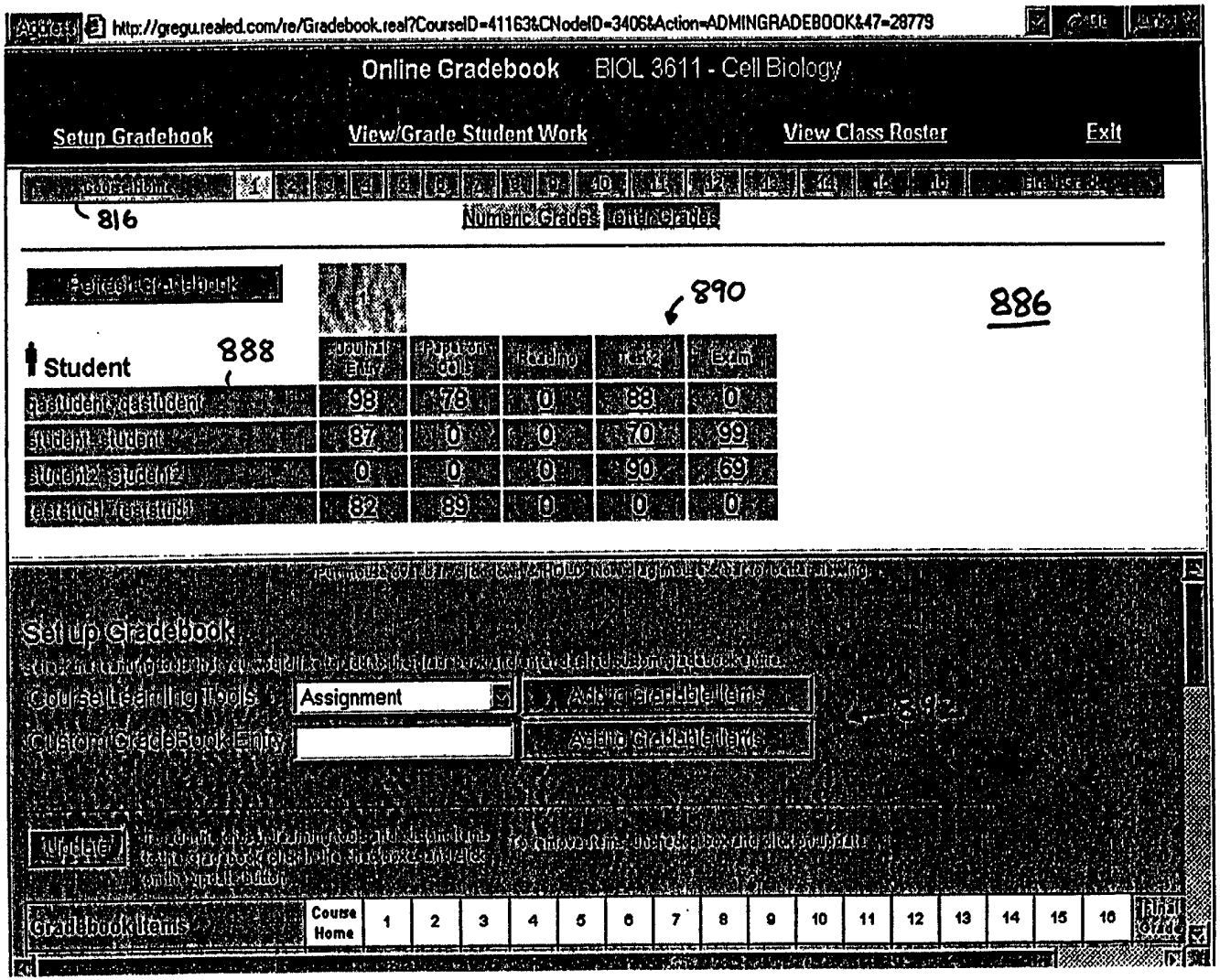


FIG. 3E

E ITRONIC EDITOR TOOL FOR EDUCATIONAL COURSES...
Atty.Dkt.No. 11610.02
Customer No. 20686

Gradebook – student view

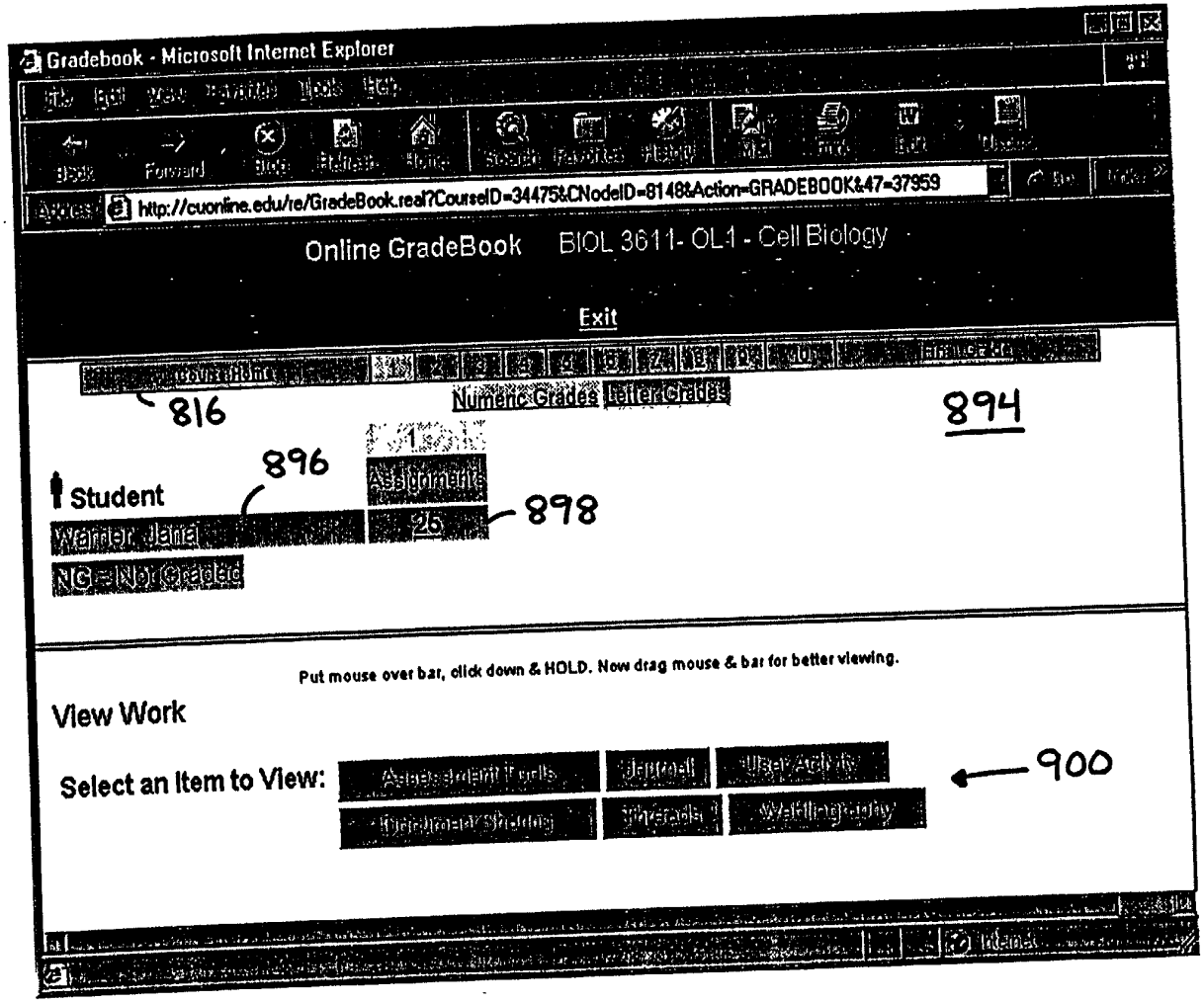


FIG. 3F

ELECTRONIC EDITOR TOOL FOR EDUCATIONAL COURSES...
Atty.Dkt.No. 11610.02
Customer No. 20686

Message Center

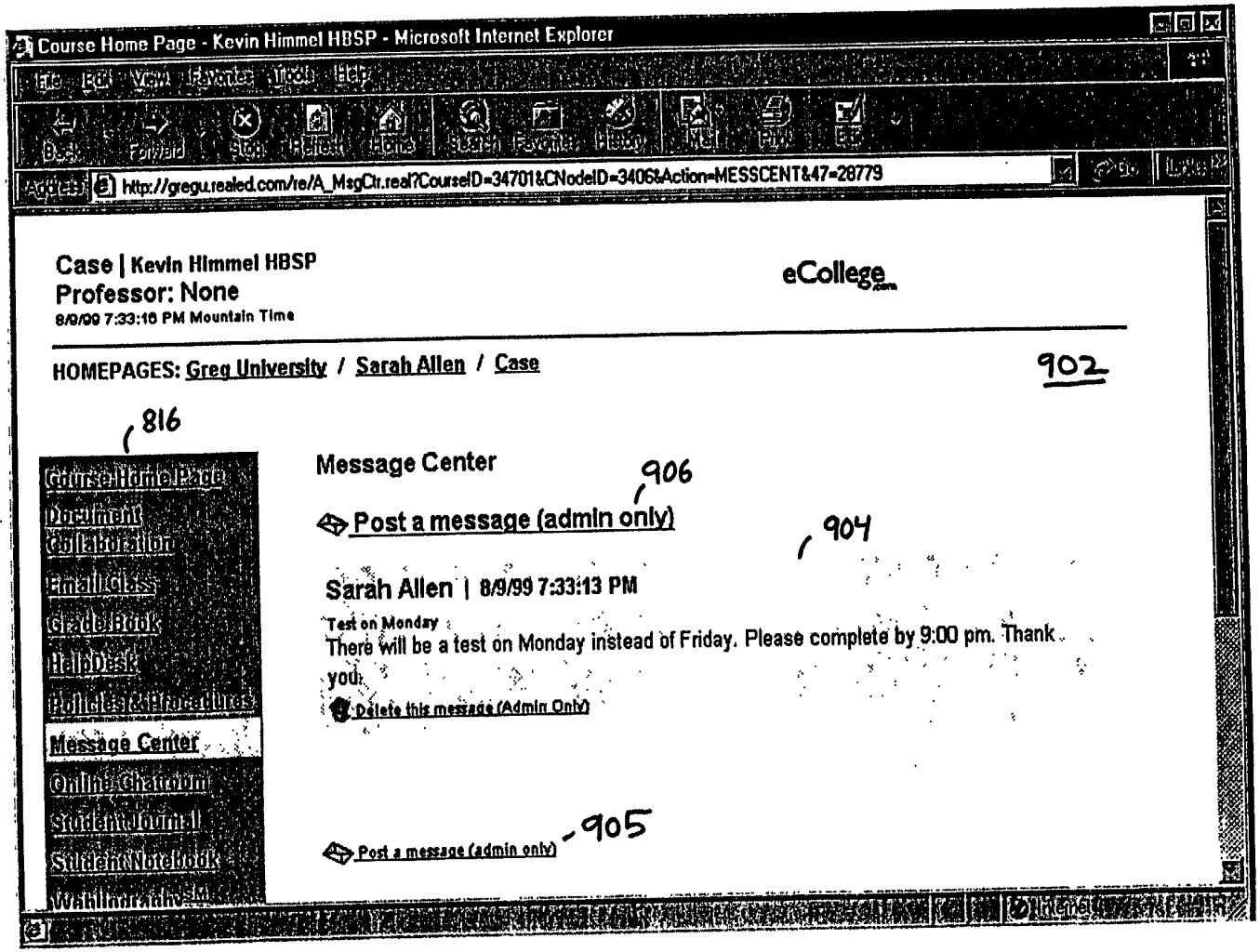


FIG. 3G

ELECTRONIC EDITOR TOOL FOR EDUCATIONAL COURSES...
Atty.Dkt.No. 11610.02
Customer No. 20686

20924O" h6/I9OOT

Online chatroom

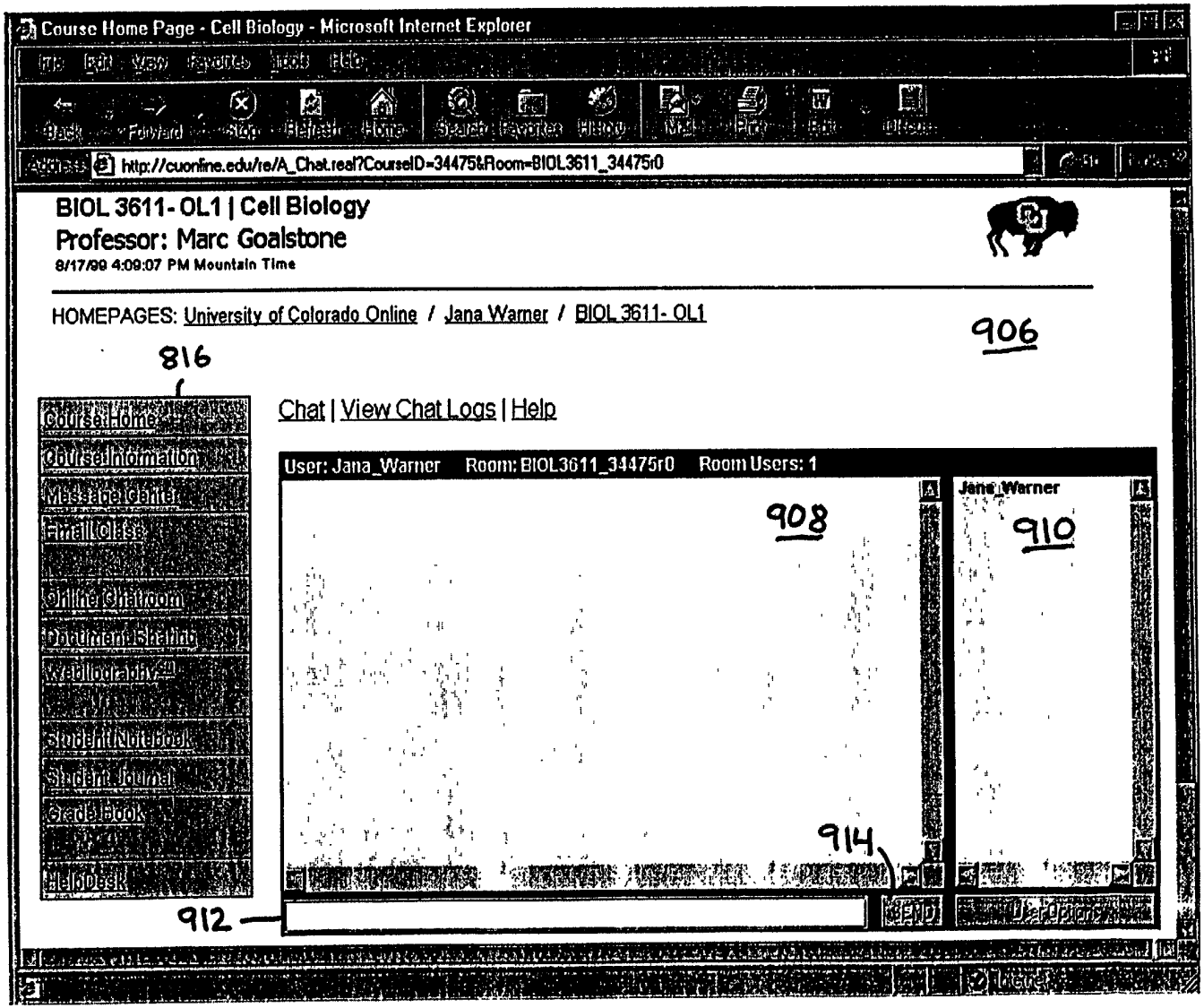


FIG. 3H

ELECTRONIC EDITOR TOOL FOR EDUCATIONAL COURSES...
Atty.Dkt.No. 11610.02
Customer No. 20686

20924h0 h67190dI

Student Journal

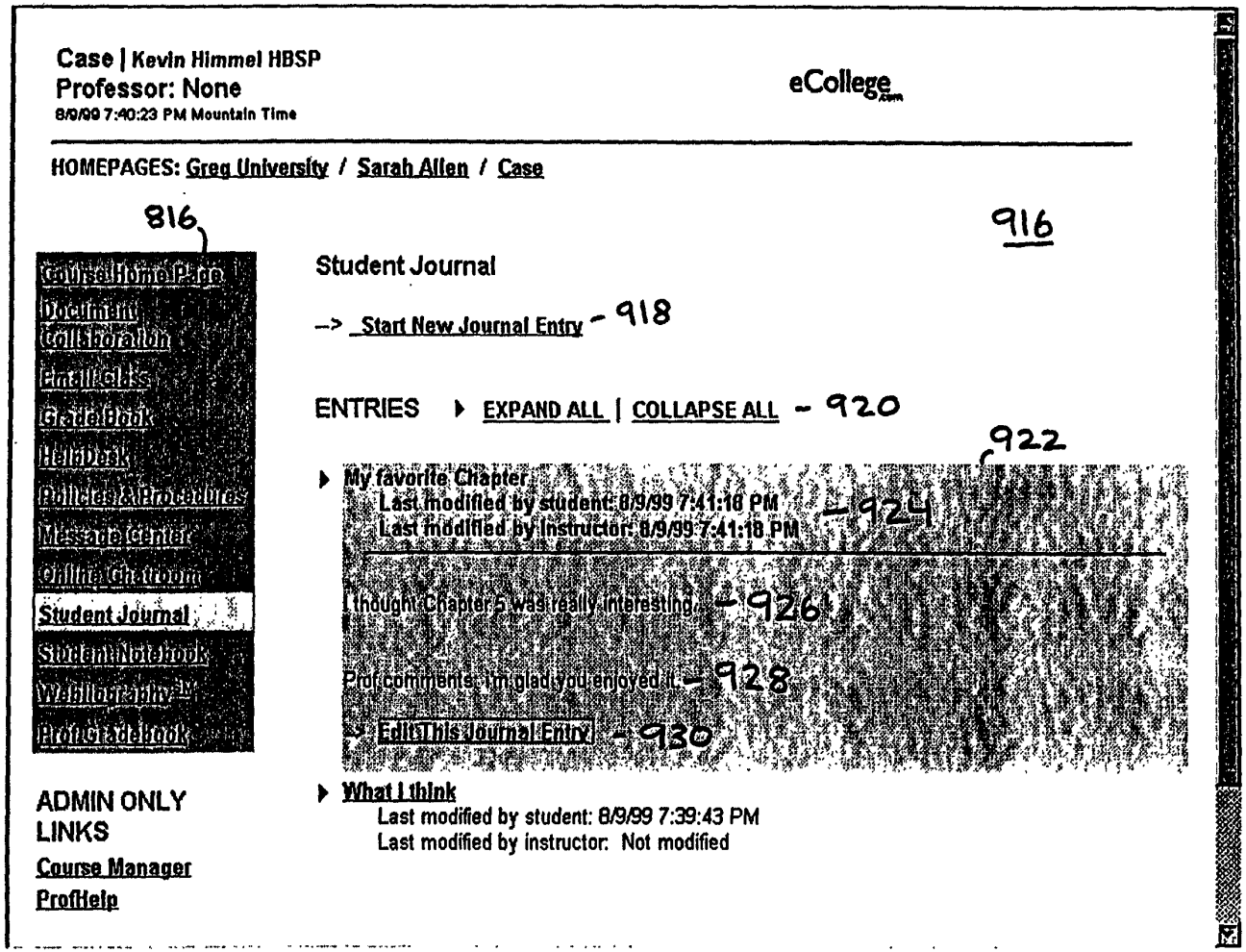


FIG. 3I

ELECTRONIC EDITOR TOOL FOR EDUCATIONAL COURSES...
Atty.Dkt.No. 11610.02
Customer No. 20686

20920"4671901

Student Notebook

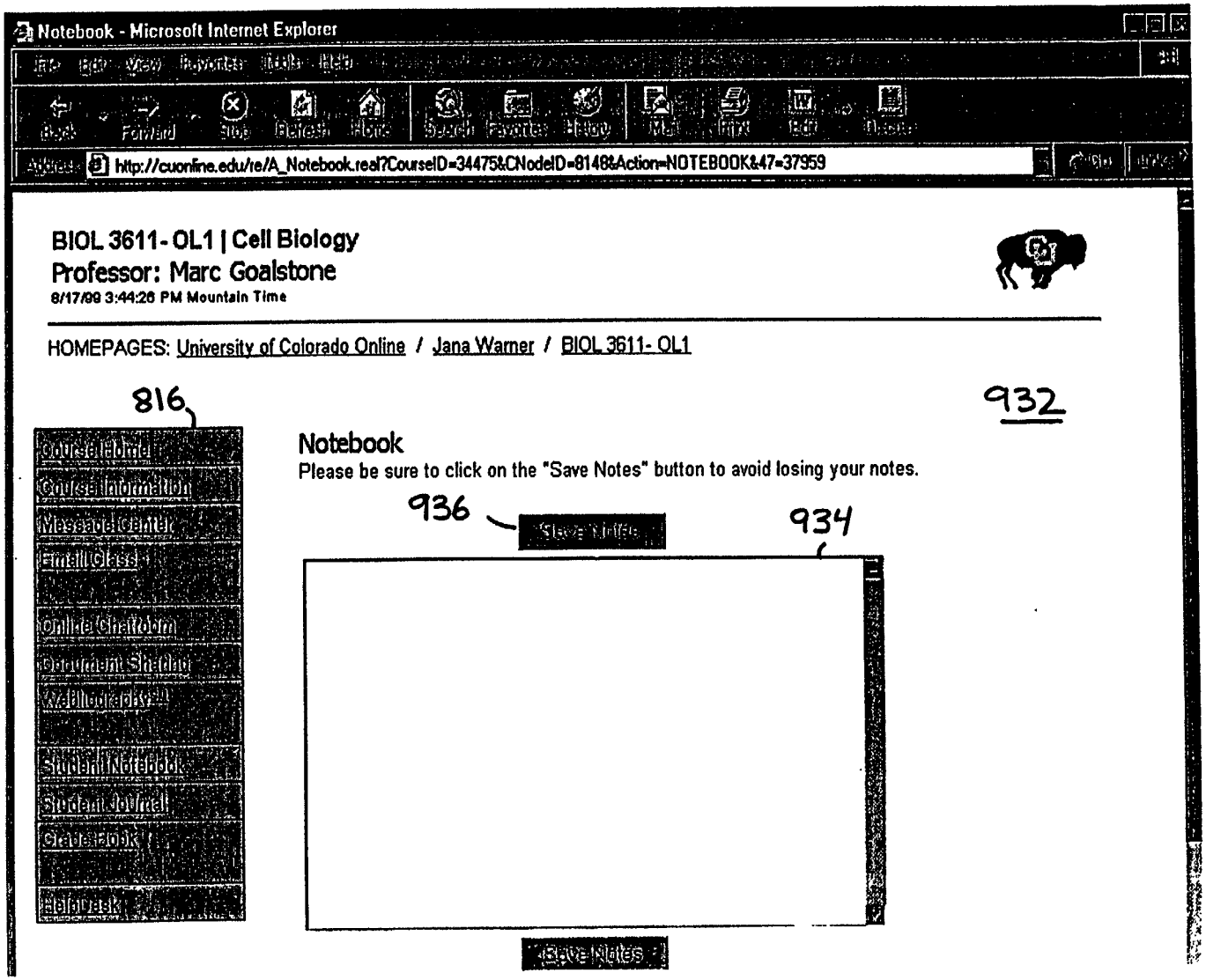


FIG 3I

ELECTRONIC EDITOR TOOL FOR EDUCATIONAL COURSES...
Atty.Dkt.No. 11610.02
Customer No. 20686

20920h0* h6Z59001

Webliography

816

Course Home Page
Document Collaboration
Email Class
Grade Book
Help Desk
Policies & Procedures
Message Center
Online Chatroom
Student Journal
Student Notebook
Webliography SM
Prof Gradebook

ADMIN ONLY LINKS
Course Manager
ProfHelp

938

Webliography

- add new entry - 940
- view
  - all entries - 942
  - search - 944

Results
2 item(s) are in the webliography.

- Great Resource - 946
  Description: This is a great source to find content in cell biology - 948

  DELETE (ADMIN ONLY)

- My favorite - 950
  Description: This is where you can talk to other cell biology researchers - 952

  DELETE (ADMIN ONLY)

FIG 3K

ELECTRONIC EDITOR TOOL FOR EDUCATIONAL COURSES...
Atty.Dkt.No. 11610.02
Customer No. 20686

20924O"46T9OT

Threaded Discussion

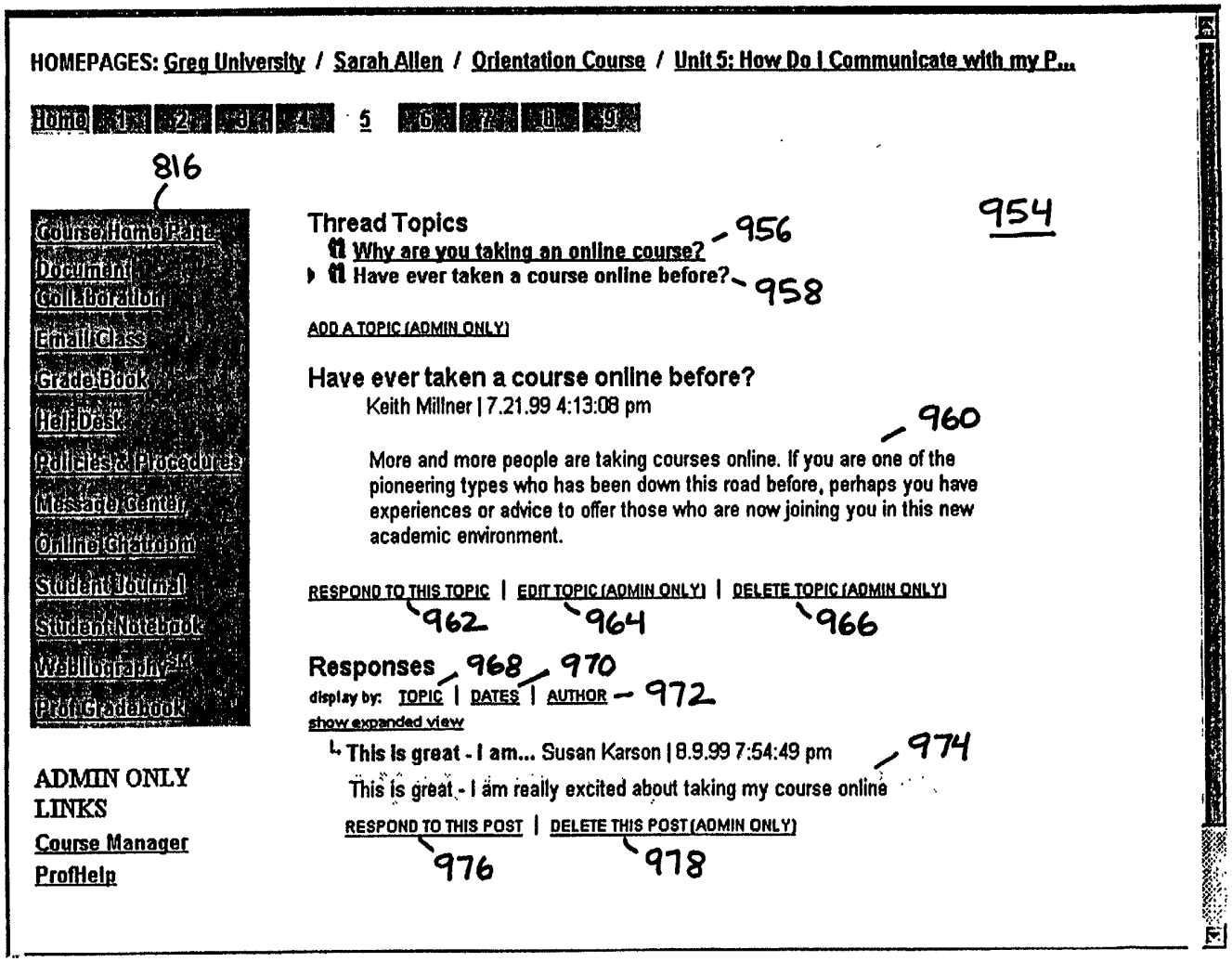


FIG. 3L

ELECTRONIC EDITOR TOOL FOR EDUCATIONAL COURSES...
Atty.Dkt.No. 11610.02
Customer No. 20686

Student Exam

Time Remaining: 0 hours 29 minutes 49 seconds ← 982

1. With online courses you do not have daily contact with your professor. Does this mean all online courses are self-paced? (1 point(s)) 984

- ○ Yes
- ○ No

980

2. Match the following terms with the correct definition. (3 point(s))

☐ E-mail	1) This synchronous form of communication can take place with the entire class, a small group, or a private meeting between my professor and me. In this type of communication, everyone involved must be logged in at the same time.
☐ Syllabus	2) This is what I would use to contact a fellow student(s) and/or the professor, without the message becoming a permanent part of the course.
☐ Online Classroom	3) My instructor may use one of these to communicate due dates for the course, and other course information.

986

Exam Navigation:

Click on the buttons below to switch between exam sections. Clicking on the buttons will also store your answers.

Exam Home | Section 1 | Section 2 | Section 3 ← 988

Store your answers frequently during exam. Submit for grading when you are finished working on the exam.

Store Answers 990 | Submit Exam For Grading 992

FIG. 3M

ELECTRONIC EDITOR TOOL FOR EDUCATIONAL COURSES...
Atty.Dkt.No. 11610.02
Customer No. 20686

20924h0" h67T900T

Administrative Pages

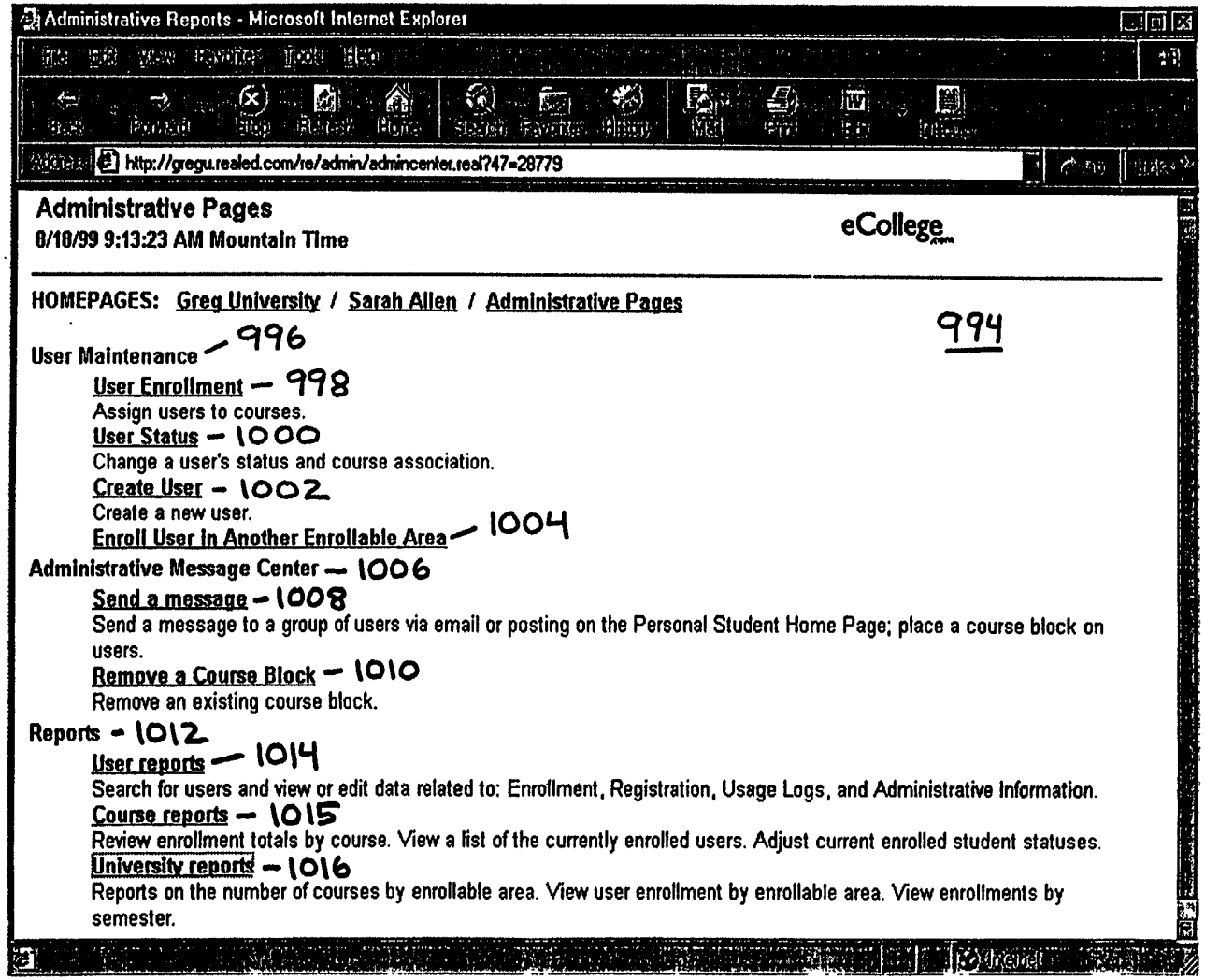


FIG. 3N

ELECTRONIC EDITOR TOOL FOR EDUCATIONAL COURSES...
Atty.Dkt.No. 11610.02
Customer No. 20686

Administrative Pages - User Enrollment

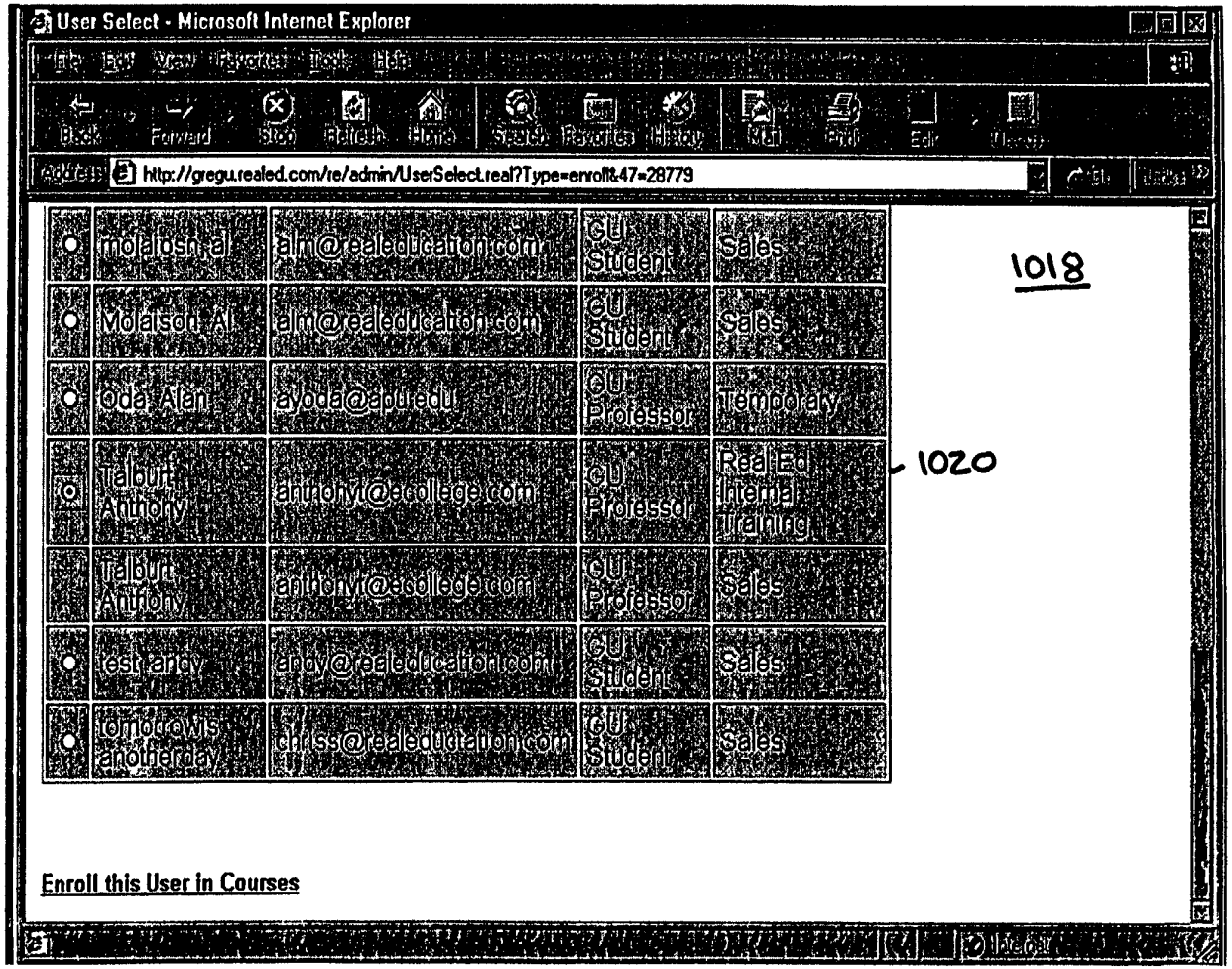


FIG. 30

Administrative Pages - User Status

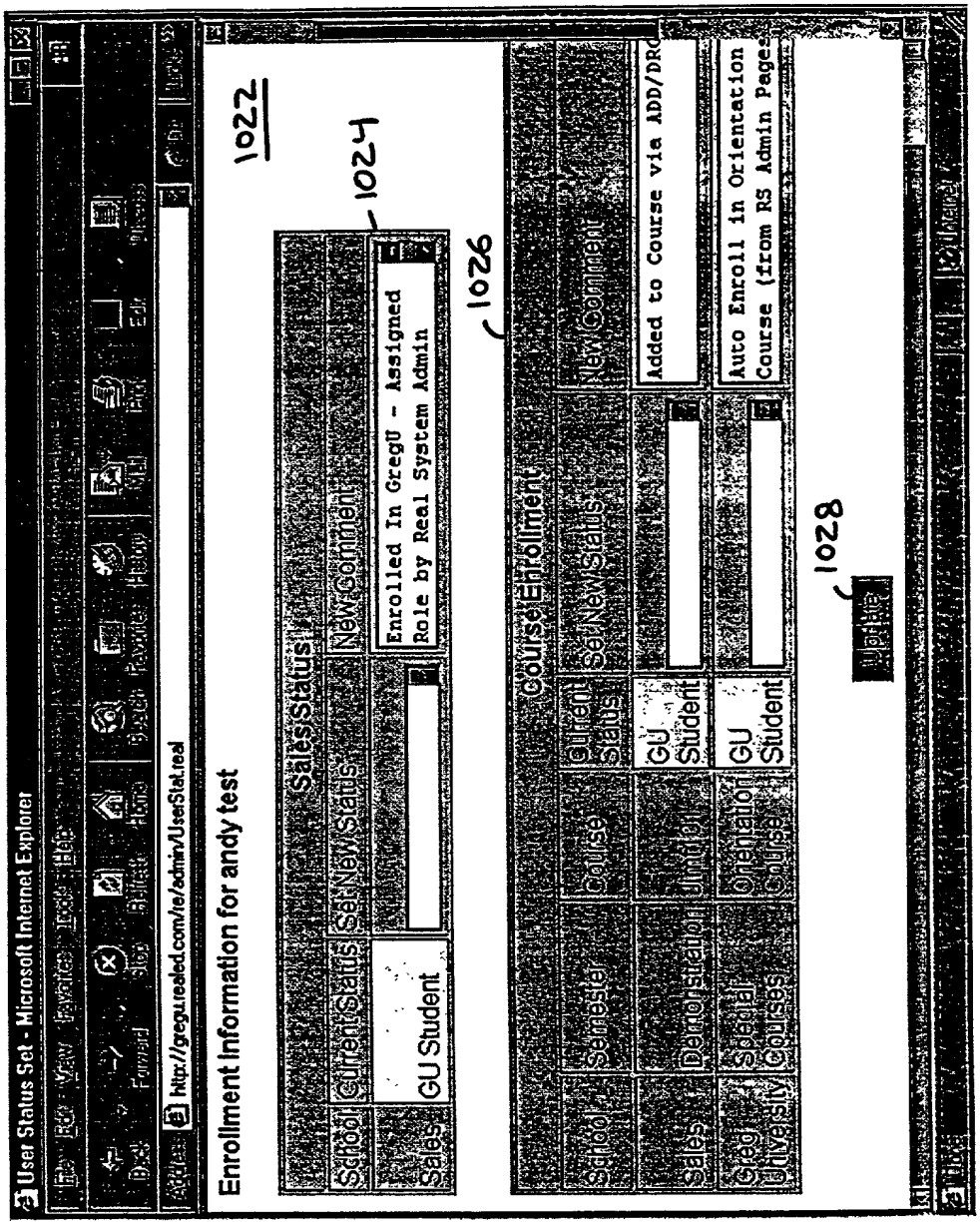


FIG. 3P

20924n0* n6Z19007

Administrative Pages - Enroll User in another Enrollable Area

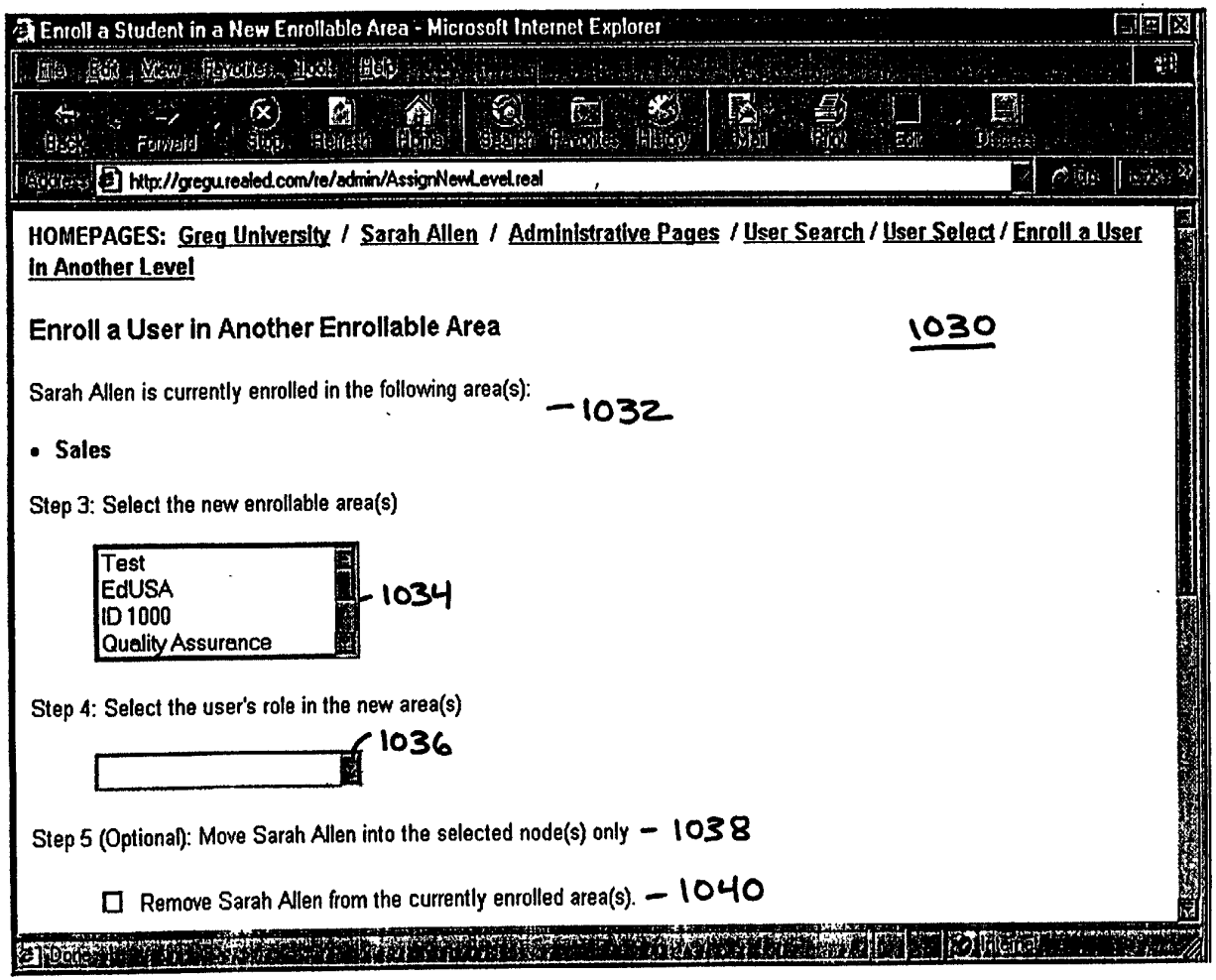


FIG. 3Q

ELECTRONIC EDITOR TOOL FOR EDUCATIONAL COURSES...
Atty. Dkt. No. 11610.02
Customer No. 20686

Administrative Pages - Send a Message

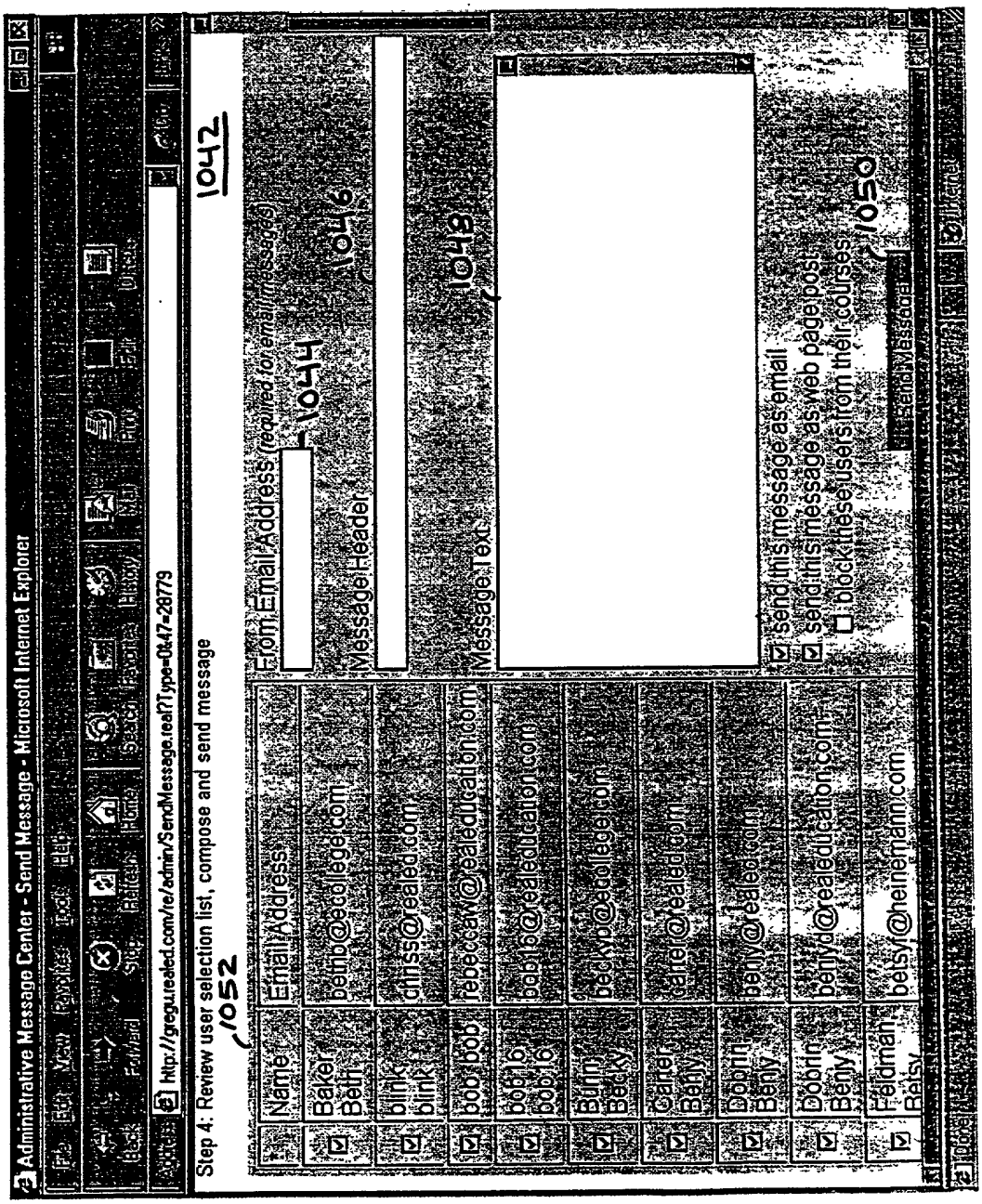


FIG. 3R

20924O*t67190OT

Administrative Pages - User Reports

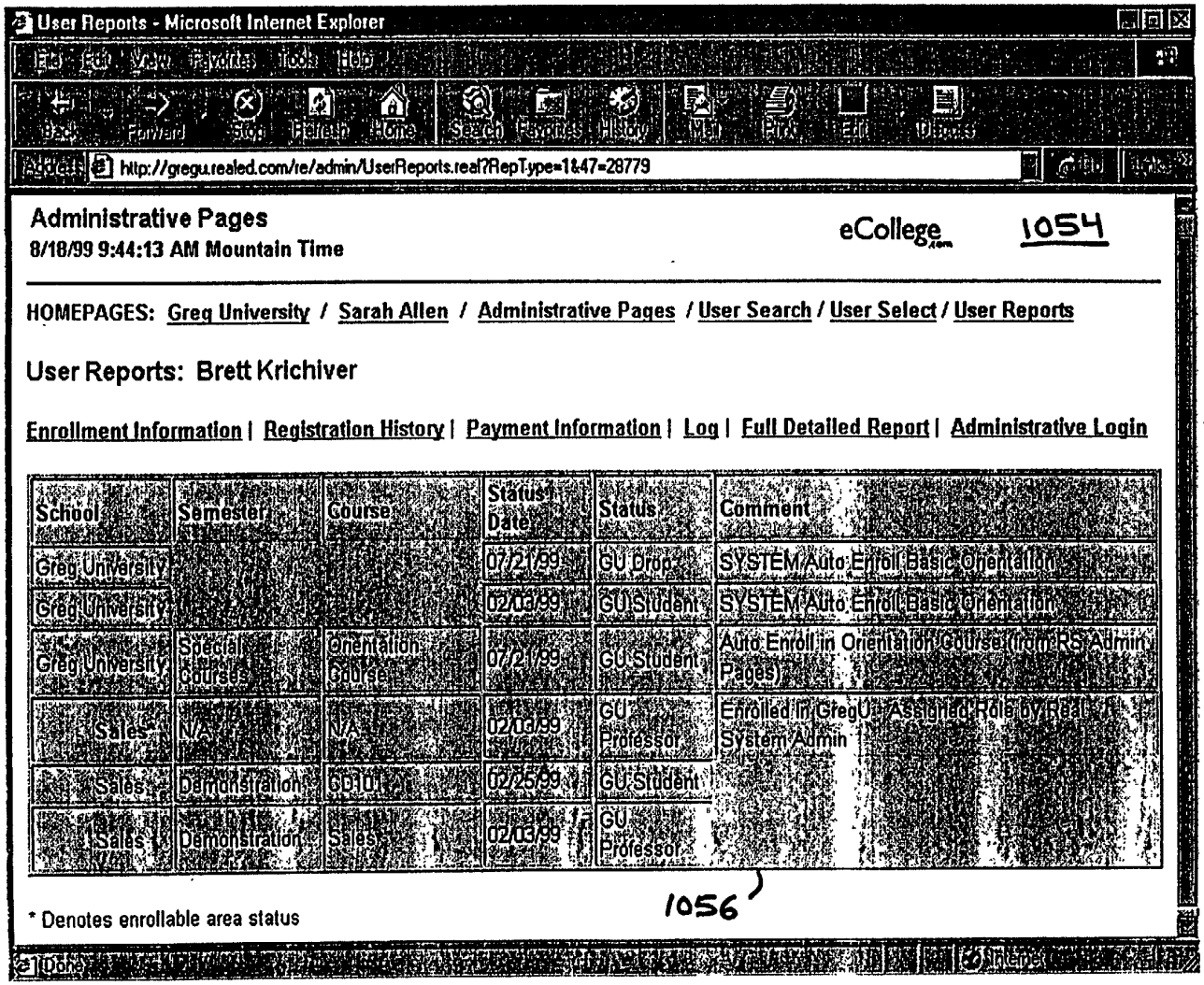


FIG. 3S

ELECTRONIC EDITOR TOOL FOR EDUCATIONAL COURSES...
Atty.Dkt.No. 11610.02
Customer No. 20686

Administrative Pages - Course Reports

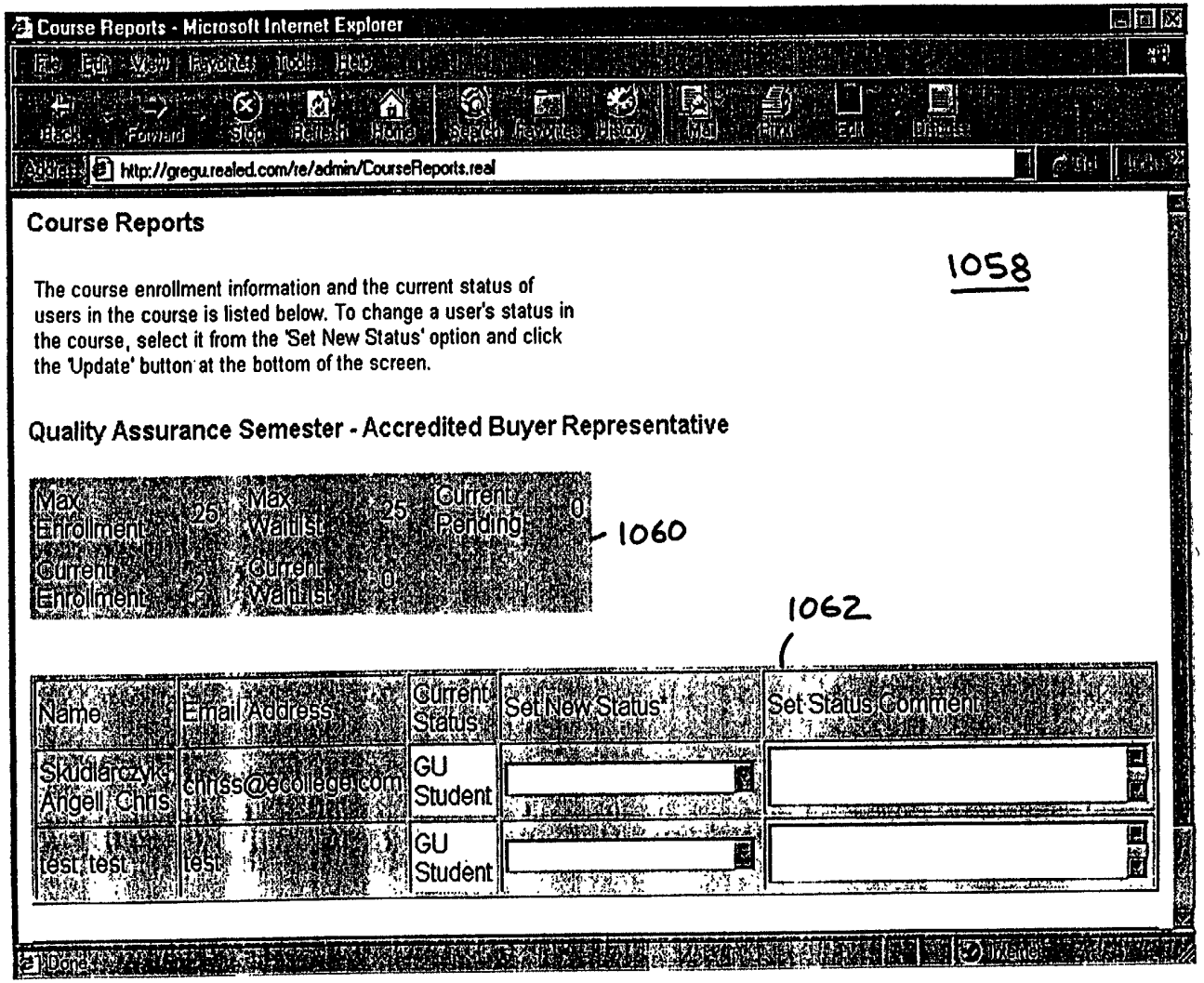


FIG. 3T

ELECTRONIC EDITOR TOOL FOR EDUCATIONAL COURSES...
Atty.Dkt.No. 11610.02
Customer No. 20686

Administrative Pages - University Reports

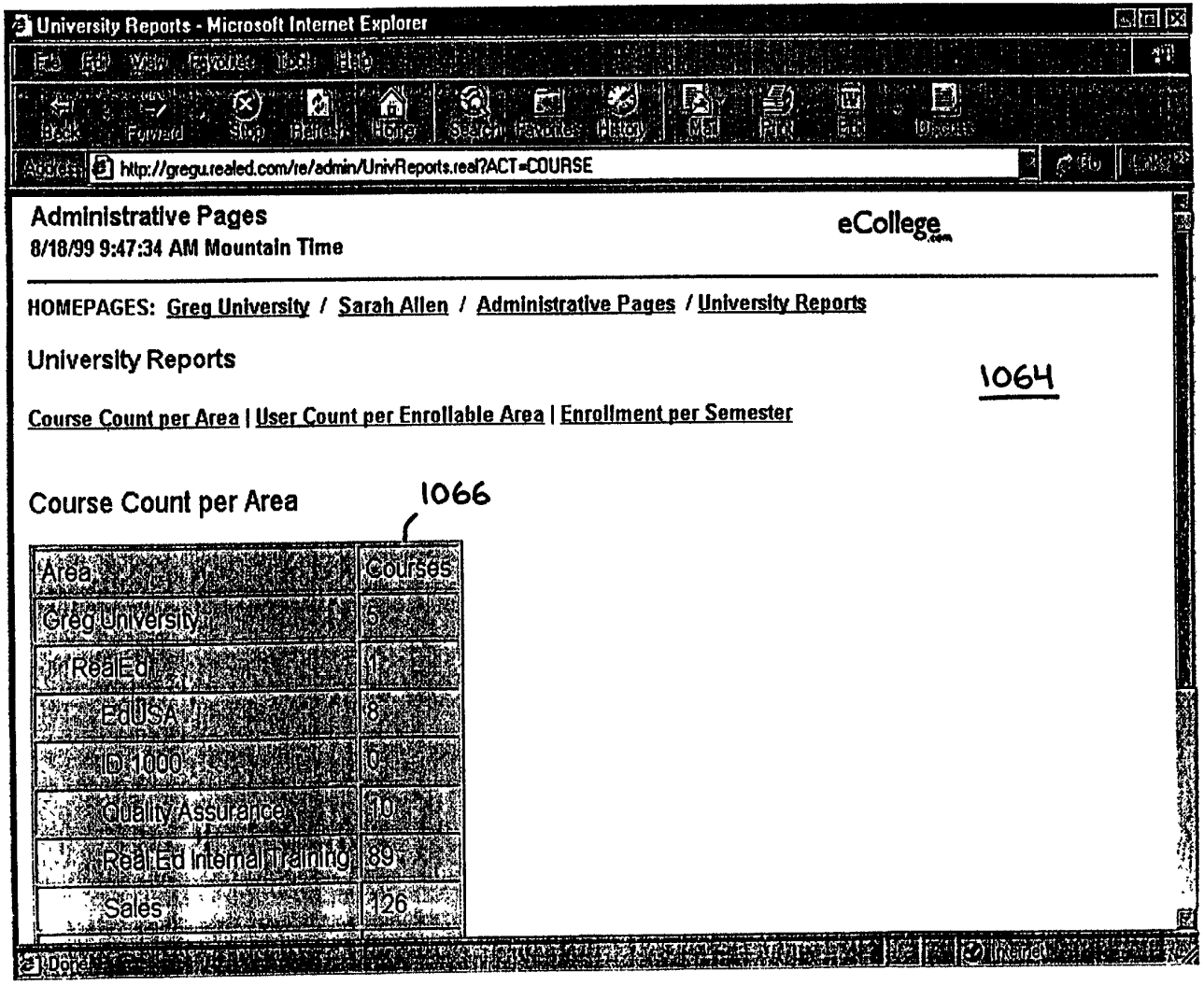


FIG. 34

ECTRONIC EDITOR TOOL FOR
UCATIONAL COURSES...
Atty.Dkt.No. 11610.02
Customer No. 20686

2092h0 h6Z19001

eCS 3.0 - Course Manager

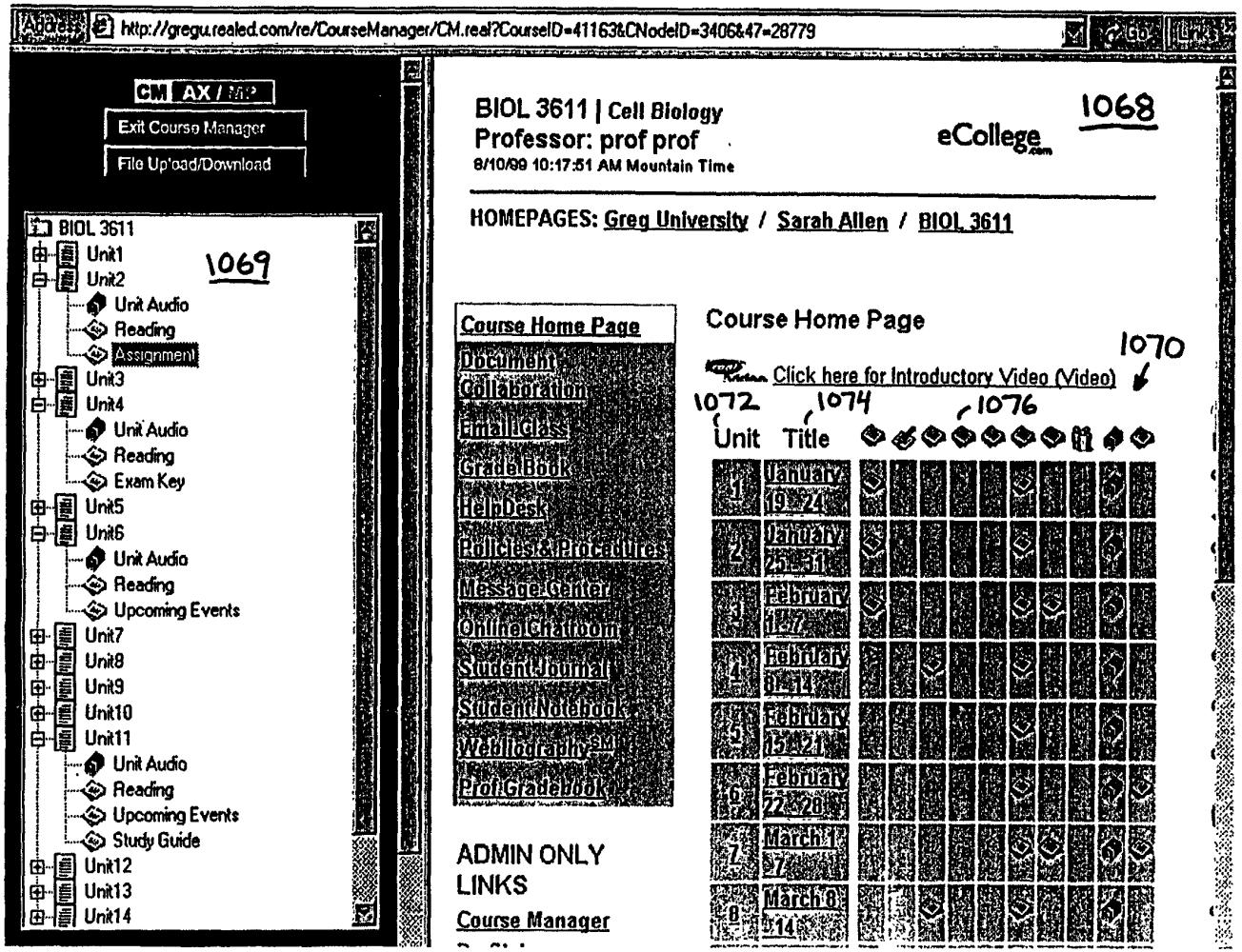


FIG 3V

ELECTRONIC EDITOR TOOL FOR EDUCATIONAL COURSES...
Atty.Dkt.No. 11610.02
Customer No. 20686

20924h0" h67190017

eCS 3.0 - Course Manager

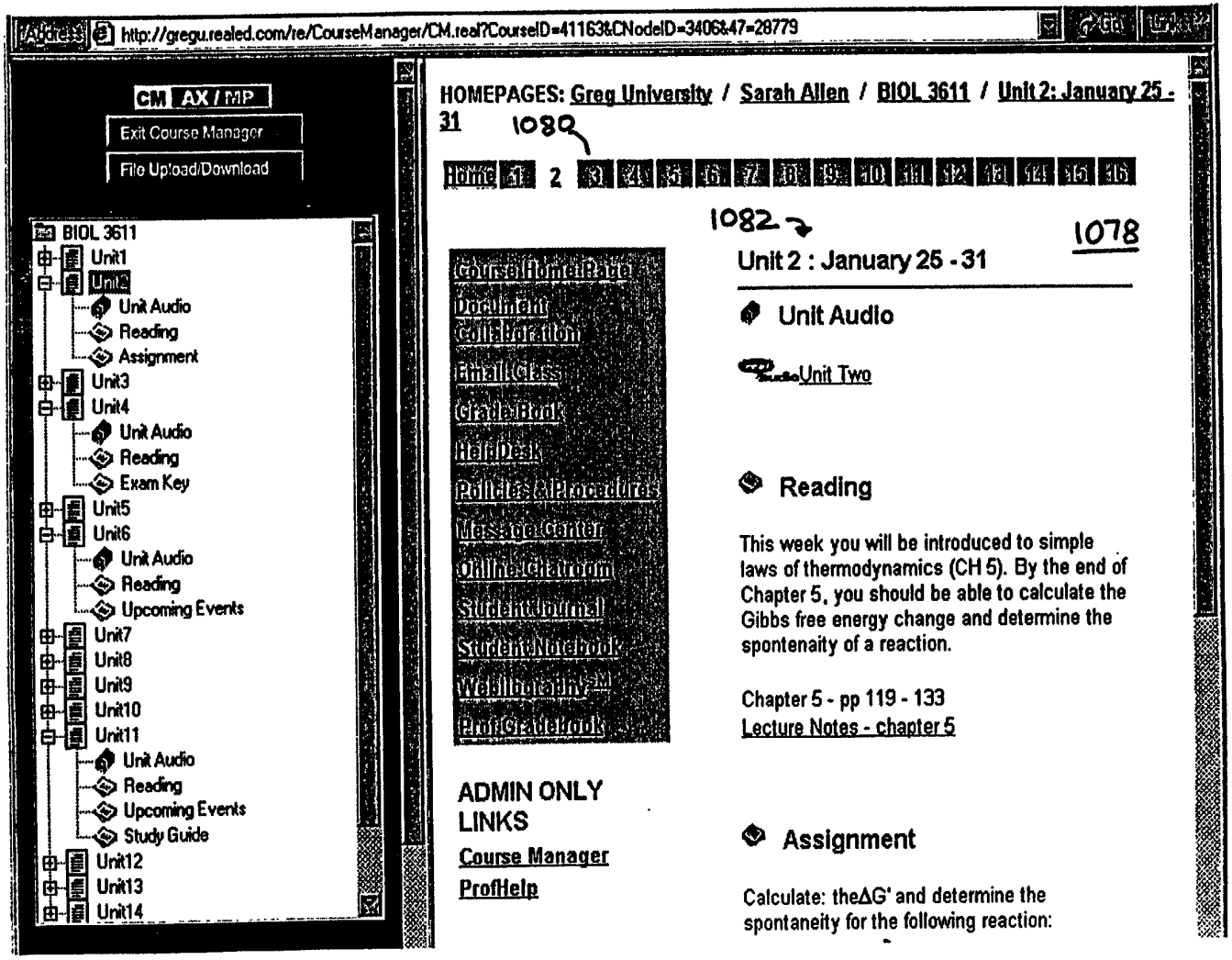


FIG 3W

ELECTRONIC EDITOR TOOL FOR EDUCATIONAL COURSES..
Atty.Dkt.No. 11610.02
Customer No. 20686

20924O*h67T900T

Course Manager

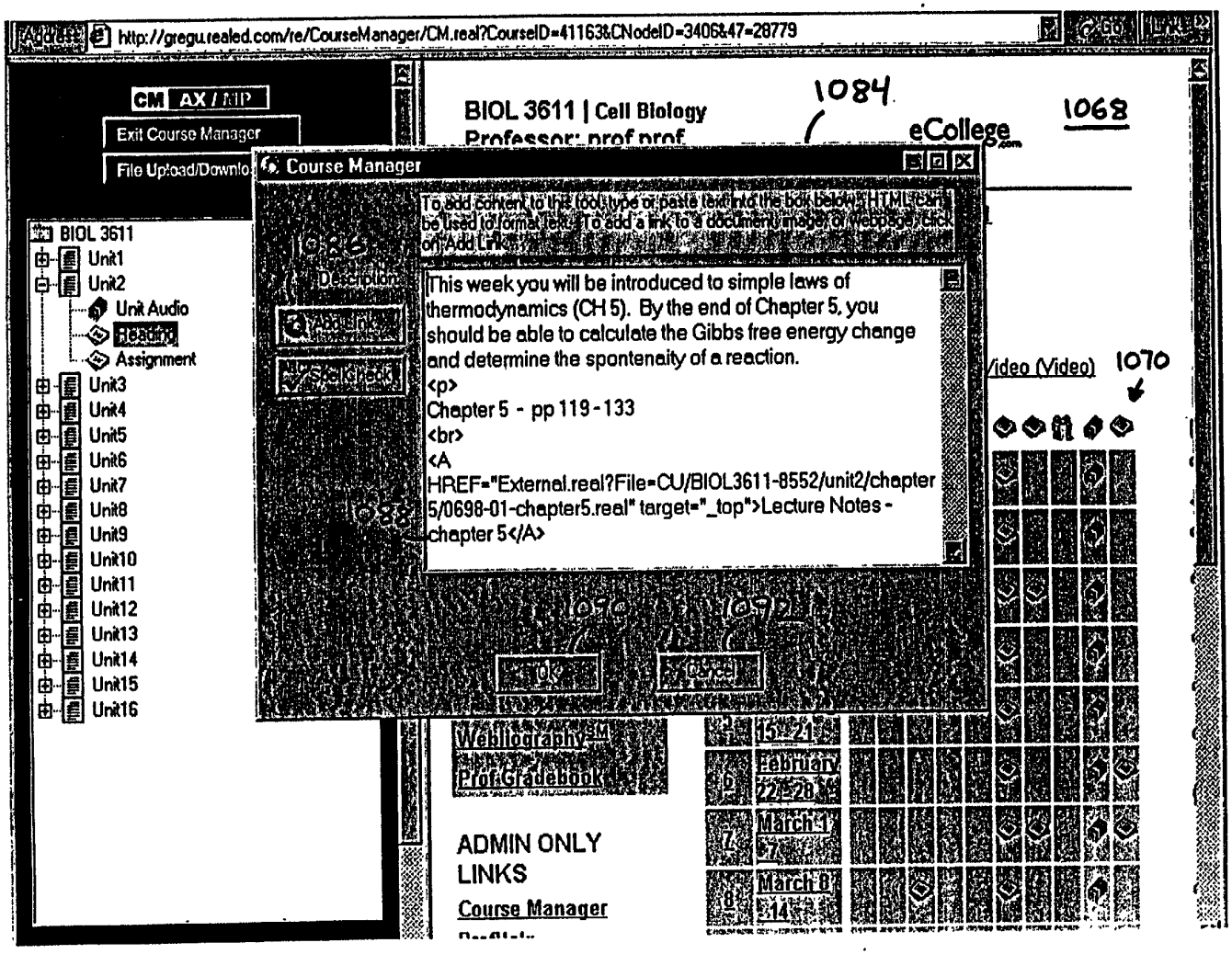


FIG 3X

ELECTRONIC EDITOR TOOL FOR EDUCATIONAL COURSES...
Atty.Dkt.No. 11610.02
Customer No. 20686

09/754,704 - 01/05/01

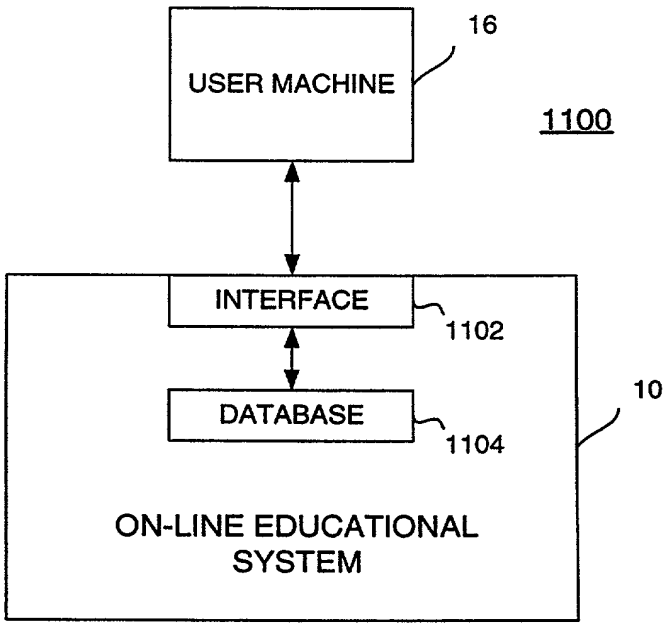


Fig. 4A

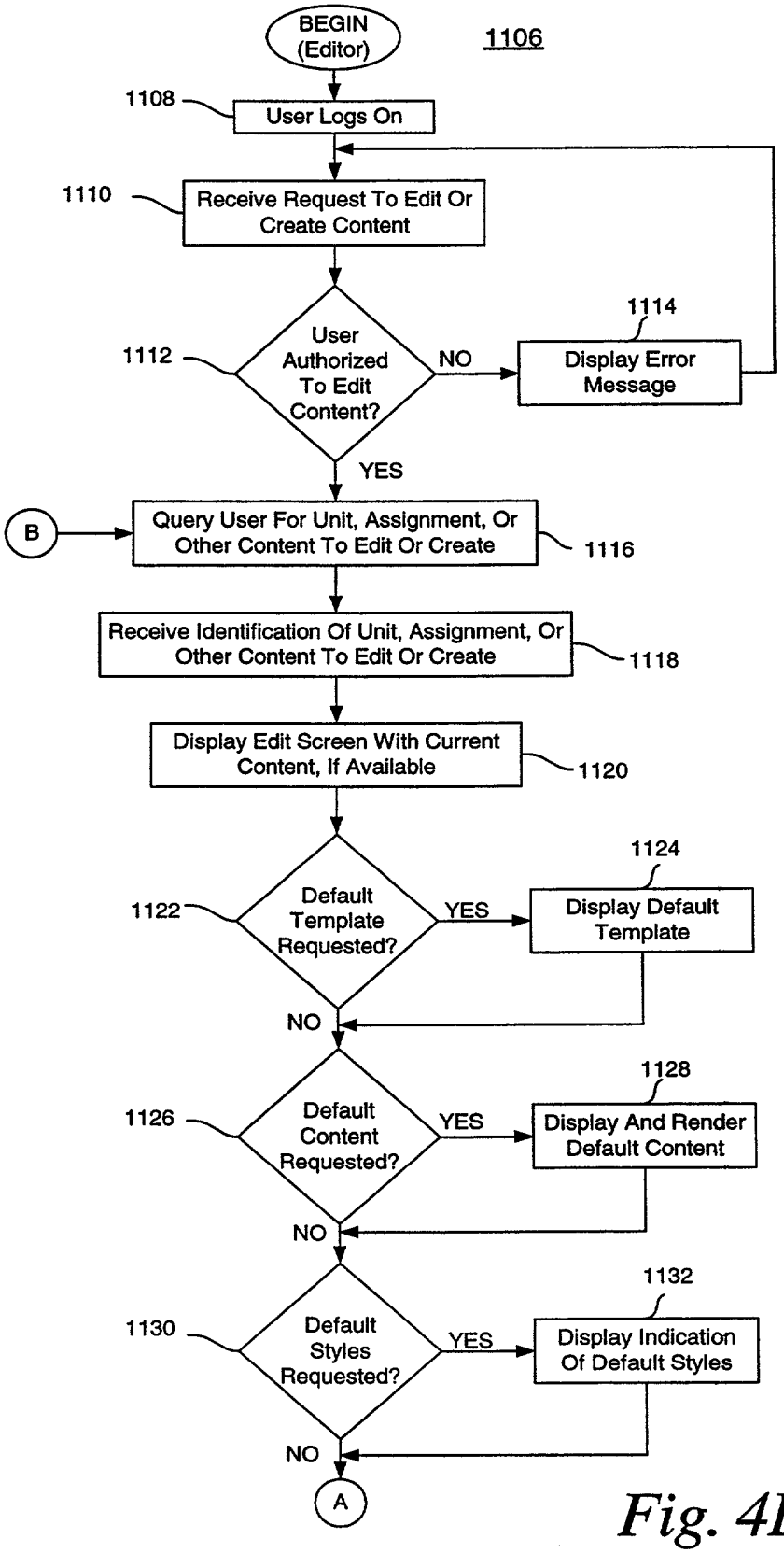

BEGIN (Editor)
1106
1108
User Logs On
1110
Receive Request To Edit Or Create Content
1112
User Authorized To Edit Content?
NO
1114
Display Error Message
YES
B
Query User For Unit, Assignment, Or Other Content To Edit Or Create
1116
Receive Identification Of Unit, Assignment, Or Other Content To Edit Or Create
1118
Display Edit Screen With Current Content, If Available
1120
1122
Default Template Requested?
YES
1124
Display Default Template
NO
1126
Default Content Requested?
YES
1128
Display And Render Default Content
NO
1130
Default Styles Requested?
YES
1132
Display Indication Of Default Styles
NO
A

Fig. 4B

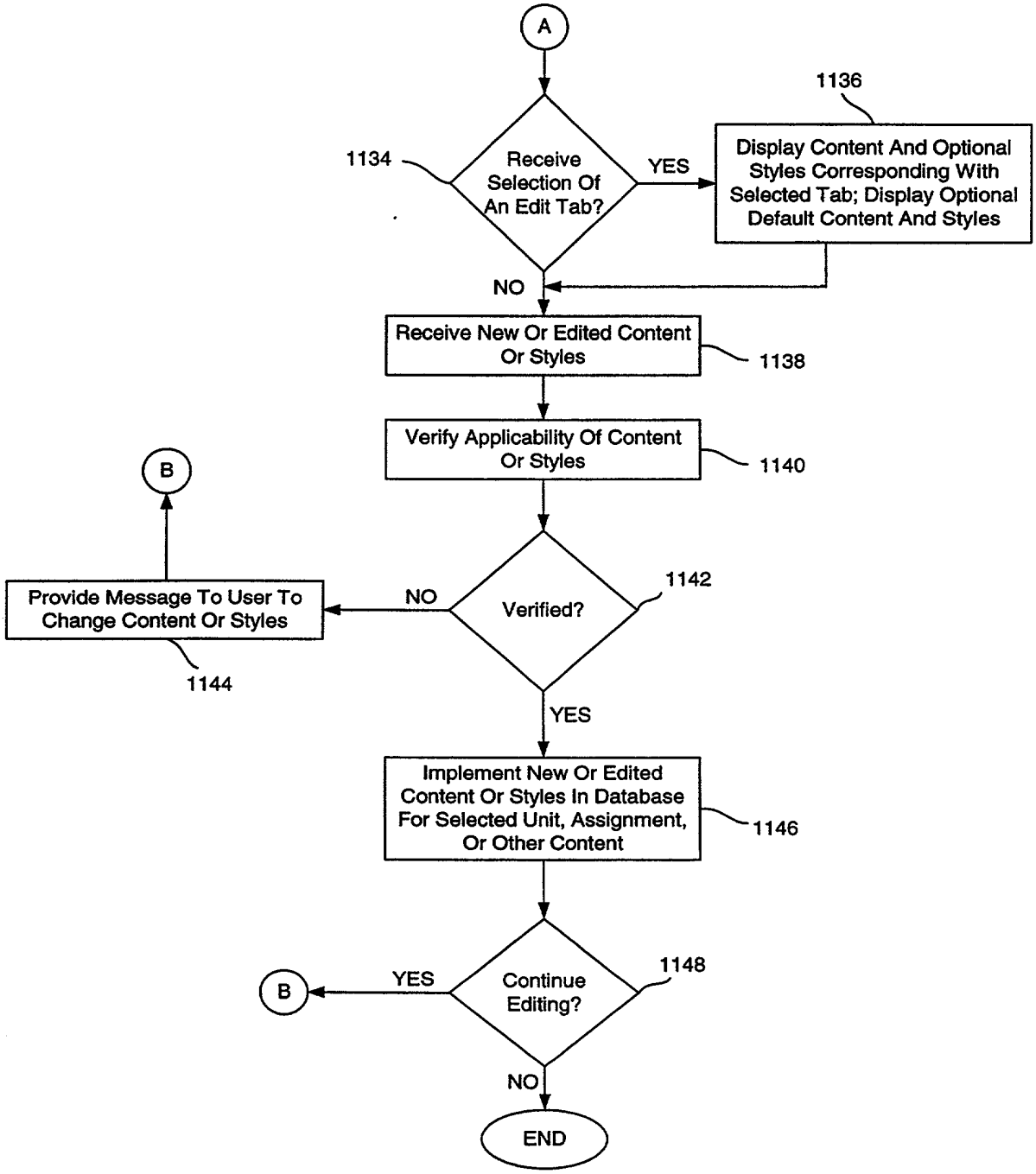

A
1136
1134
Receive Selection Of An Edit Tab?
YES
Display Content And Optional Styles Corresponding With Selected Tab; Display Optional Default Content And Styles
NO
Receive New Or Edited Content Or Styles
1138
Verify Applicability Of Content Or Styles
1140
B
Provide Message To User To Change Content Or Styles
NO
Verified?
1142
1144
YES
Implement New Or Edited Content Or Styles In Database For Selected Unit, Assignment, Or Other Content
1146
B
YES
Continue Editing?
1148
NO
END

Fig. 4C

10656754.040202

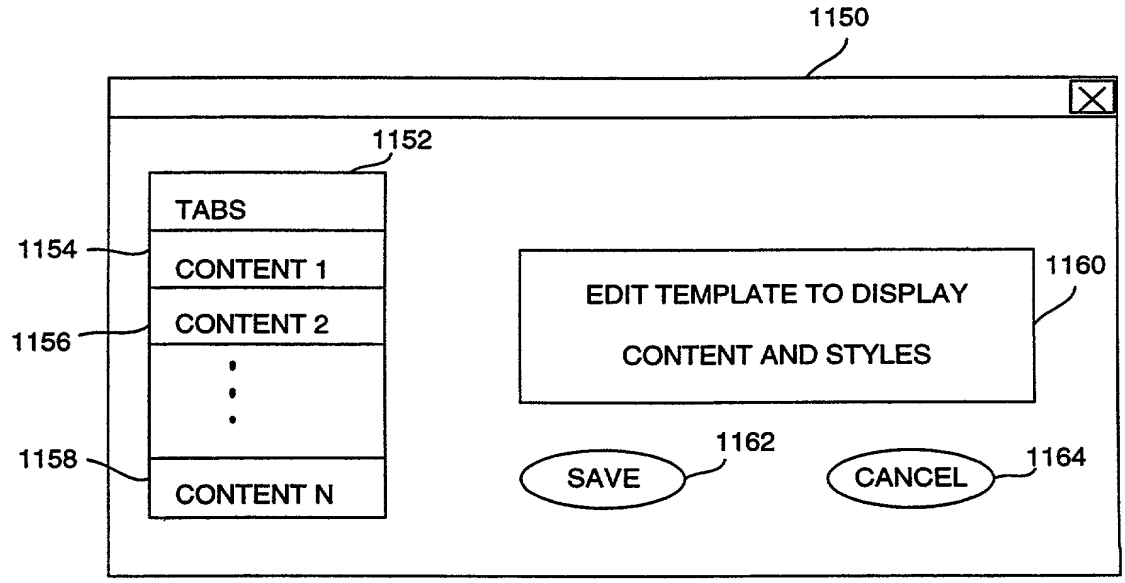


Fig. 4D

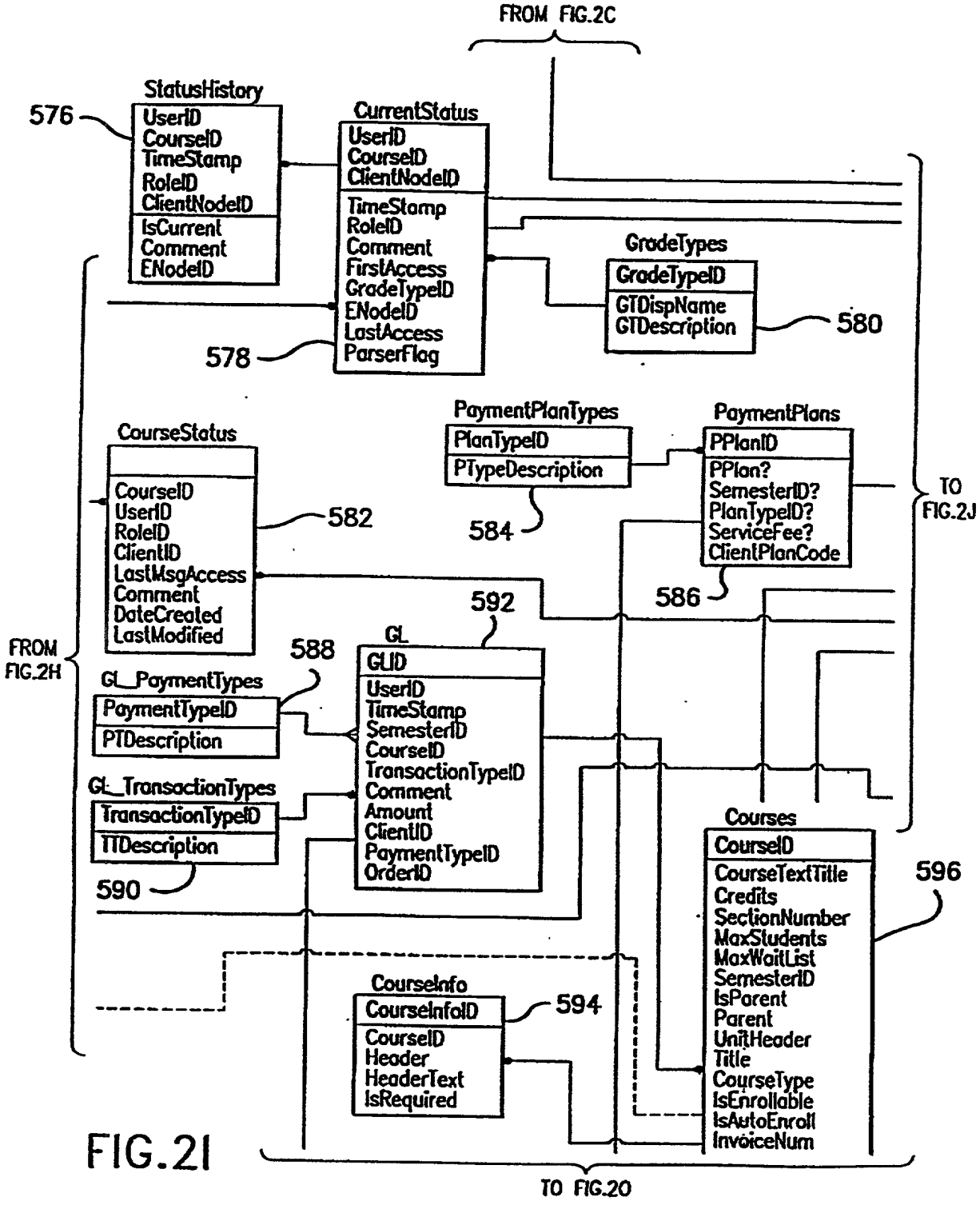

FROM FIG.2C
StatusHistory
576
UserID
CourseID
TimeStamp
RoleID
ClientNodeID
IsCurrent
Comment
ENodeID
CurrentStatus
UserID
CourseID
ClientNodeID
TimeStamp
RoleID
Comment
FirstAccess
GradeTypeID
ENodeID
LastAccess
ParserFlag
578
GradeTypes
GradeTypeID
GTDispName
GTDescription
580
PaymentPlanTypes
PlanTypeID
PTypeDescription
584
PaymentPlans
PPlanID
PPlan?
SemesterID?
PlanTypeID?
ServiceFee?
ClientPlanCode
586
TO FIG.2J
CourseStatus
CourseID
UserID
RoleID
ClientID
LastMsgAccess
Comment
DateCreated
LastModified
582
592
GL
GLID
UserID
TimeStamp
SemesterID
CourseID
TransactionTypeID
Comment
Amount
ClientID
PaymentTypeID
OrderID
588
GL_PaymentTypes
PaymentTypeID
PTDescription
GL_TransactionTypes
TransactionTypeID
TTDescription
590
FROM FIG.2H
Courses
CourseID
CourseTextTitle
Credits
SectionNumber
MaxStudents
MaxWaitList
SemesterID
IsParent
Parent
UnitHeader
Title
CourseType
IsEnrollable
IsAutoEnroll
InvoiceNum
596
CourseInfo
CourseInfoID
CourseID
Header
HeaderText
IsRequired
594
TO FIG.2O

FIG.2I

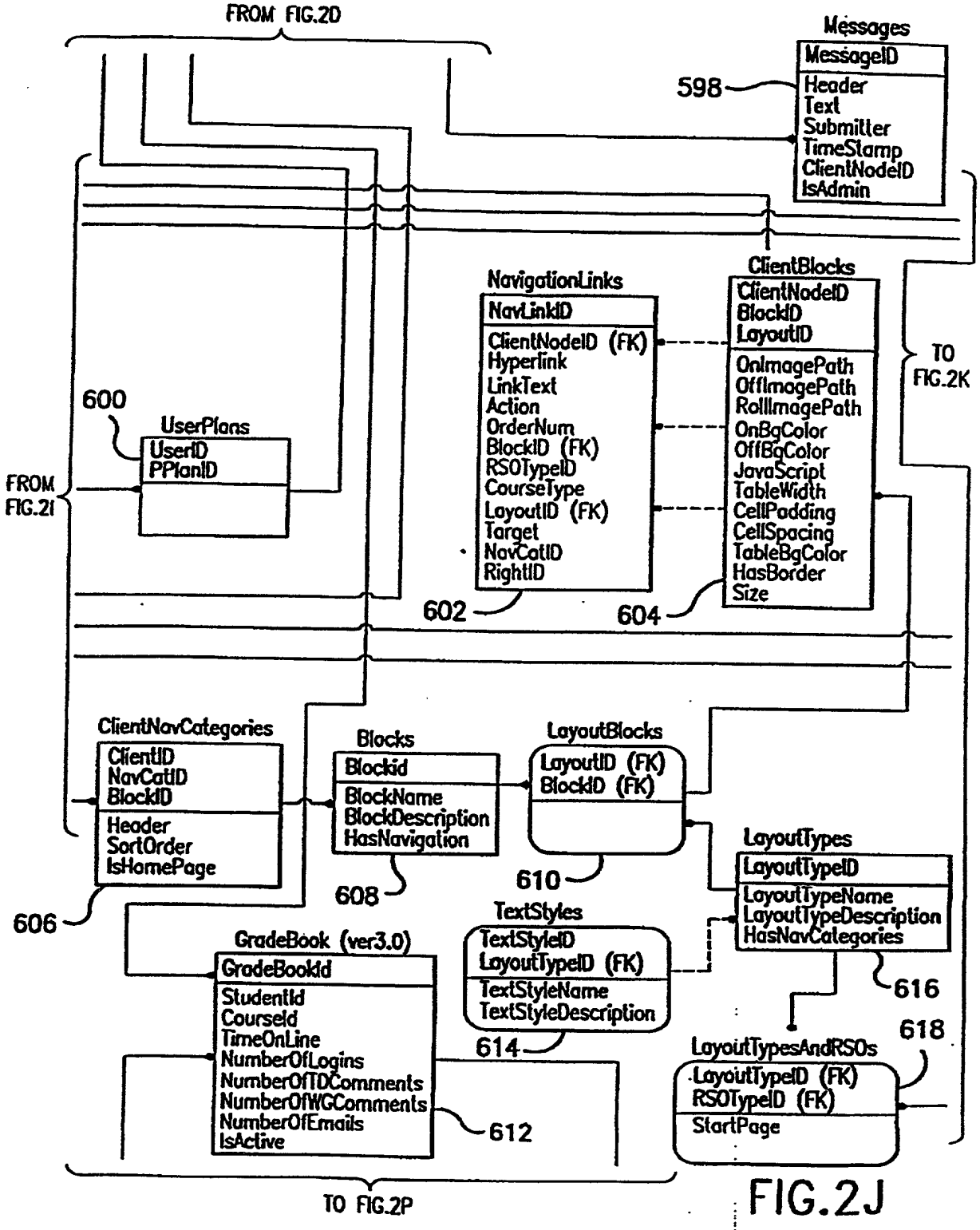

FROM FIG.2D
Messages
MessageID
598
Header
Text
Submitter
TimeStamp
ClientNodeID
IsAdmin
NavigationLinks
NavLinkID
ClientNodeID (FK)
Hyperlink
LinkText
Action
OrderNum
BlockID (FK)
RSOTypeID
CourseType
LayoutID (FK)
Target
NavCatID
RightID
602
ClientBlocks
ClientNodeID
BlockID
LayoutID
OnImagePath
OffImagePath
RollImagePath
OnBgColor
OffBgColor
JavaScript
TableWidth
CellPadding
CellSpacing
TableBgColor
HasBorder
Size
604
TO FIG.2K
600
UserPlans
UserID
PPlanID
FROM FIG.2I
ClientNavCategories
ClientID
NavCatID
BlockID
Header
SortOrder
IsHomePage
606
Blocks
Blockid
BlockName
BlockDescription
HasNavigation
608
LayoutBlocks
LayoutID (FK)
BlockID (FK)
610
LayoutTypes
LayoutTypeID
LayoutTypeName
LayoutTypeDescription
HasNavCategories
616
TextStyles
TextStyleID
LayoutTypeID (FK)
TextStyleName
TextStyleDescription
614
GradeBook (ver3.0)
GradeBookId
StudentId
CourseId
TimeOnLine
NumberOfLogins
NumberOfTDComments
NumberOfWGComments
NumberOfEmails
IsActive
612
LayoutTypesAndRSOs
LayoutTypeID (FK)
RSOTypeID (FK)
StartPage
618
TO FIG.2P

FIG.2J

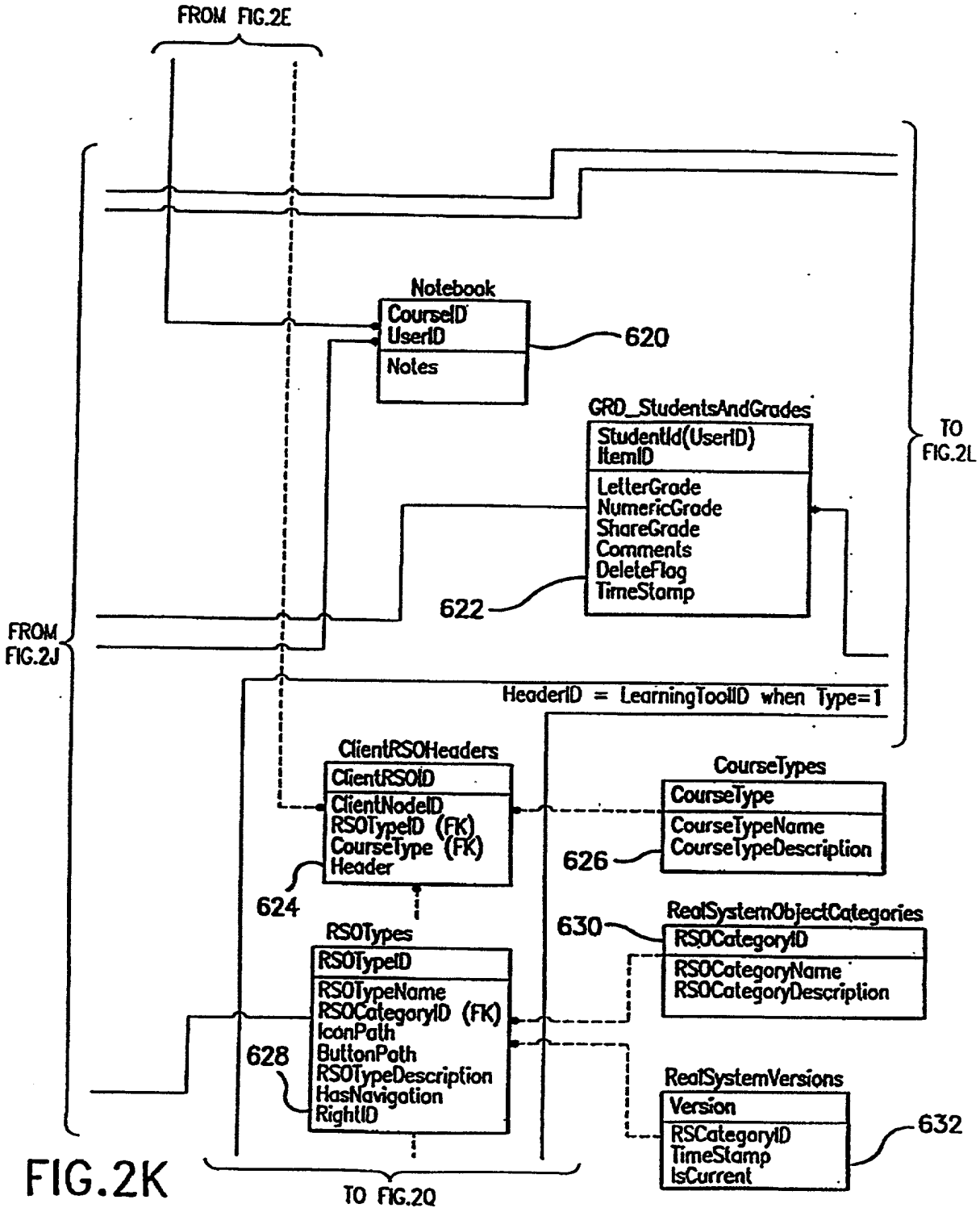

FROM FIG.2E
Notebook
CourseID
UserID
Notes
620
GRD_StudentsAndGrades
StudentId(UserID)
ItemID
LetterGrade
NumericGrade
ShareGrade
Comments
DeleteFlag
TimeStamp
622
TO FIG.2L
FROM FIG.2J
HeaderID = LearningToolID when Type=1
ClientRSOHeaders
ClientRSOID
ClientNodeID
RSOTypeID (FK)
CourseType (FK)
Header
624
CourseTypes
CourseType
CourseTypeName
CourseTypeDescription
626
RealSystemObjectCategories
630
RSOCategoryID
RSOCategoryName
RSOCategoryDescription
RSOTypes
RSOTypeID
RSOTypeName
RSOCategoryID (FK)
IconPath
ButtonPath
RSOTypeDescription
HasNavigation
RightID
628
RealSystemVersions
Version
RSCategoryID
TimeStamp
IsCurrent
632
TO FIG.2O

FIG.2K